

1982



# Statistical Summary of the Mineral Industry in Canada

In January 1979, the responsibility for Canadian mineral statistics was transferred from Statistics Canada to the Department of Energy, Mines and Resources. The first annual statistical report of this nature on the Canadian mineral industry was published by the Geological and Natural History Survey of Canada in 1886 and later by the Mines Branch of the Department of Mines until 1920. In 1921, the Dominion Bureau of Statistics, later Statistics Canada, assumed the responsibility and continued to publish the reports until 1978.

The statistical material contained in this summary was principally derived from surveys conducted by the Information Systems Division of the Mineral Policy Sector of Energy, Mines and Resources Canada.

The statistical survey program of Energy, Mines and Resources Canada is conducted jointly with the provincial

governments and Statistics Canada. This joint program is intended to minimize the reporting burden on the mineral companies. The cooperation of the companies that provide information is greatly appreciated. Without this cooperation, a statistical report of this nature would not be possible. International mineral statistics contained in this summary are derived from the U.S. Bureau of Mines, The American Bureau of Metal Statistics, The World Bureau of Metal Statistics, **Metals Week**, **Engineering and Mining Journal**, The United Nations and the Organization for Economic Co-operation and Development (OECD).

This statistical summary of the mineral industry in Canada for the year 1981 was prepared by J.T. Brennan and staff, Statistics Section, Mineral Policy Sector, Energy, Mines and Resources Canada, Ottawa. Telephone (613) 995-9466.

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## CANADA, GENERAL ECONOMIC

		1968	1969	1970	1971	1972
Gross national product, current dollars	(\$ million)	72,586	79,815	85,685	94,450	105,234
Gross national product, constant dollars (1971 = 100)	"	81,864	86,225	88,390	94,450	100,248
Value of manufacturing in- dustry shipments	"	42,062	45,930	46,381	50,276	56,191
Value of mineral pro- duction	"	4,722	4,734	5,722	5,963	6,408
Merchandise exports	"	13,270	14,498	16,401	17,397	19,671
Merchandise imports	"	12,360	14,130	13,952	15,618	18,669
Balance of payments, current account	"	-97	-917	+1,106	+431	-386
Corporation profits before taxes	"	7,742	8,294	7,699	8,681	10,799
Capital investment current dollars	"	15,455	16,927	17,798	20,184	22,218
Capital investment, constant dollars (1971 = 100)	"	17,628	18,498	18,635	20,184	21,242
Population	000's	20,701	21,001	21,297	21,568	21,802
Labour force	"	7,951	8,194	8,395	8,639	8,897
Employed	"	7,593	7,832	7,919	8,104	8,344
Unemployed	"	358	362	476	535	553
Unemployment rate	%	4.5	4.4	5.7	6.2	6.2
Employment index	1961=100	122.7	127.0	127.1	127.8	129.9
Labour income	(\$ million)	38,444	43,065	46,706	51,528	57,570
Index industrial production <sup>T</sup>	1971=100	87.6	93.6	94.9	100.0	107.6
Index manufacturing production <sup>T</sup>	"	89.1	95.8	94.5	100.0	107.7
Index mining production <sup>T</sup>	"	86.2	86.9	98.7	100.0	104.4
Index gross domestic product <sup>T</sup>	1971=100	86.9	92.2	94.4	100.0	105.2
Consumer price index	1981=100	38.0	39.7	41.0	42.2	44.2

P Preliminary; <sup>T</sup> Revised.

## INDICATORS, 1968-82

1973	1974	1975	1976	1977	1978	1979	1980	1981	1982 <sup>P</sup>
123,560	147,528	165,343	191,031	208,868	230,490	261,576	291,869	331,338	348,925
107,812	111,678	113,005	119,249	121,762	126,191	129,850	130,467	134,540	128,057
66,674	82,455	88,427	98,076	109,747	129,019	152,133	165,985	188,212	182,865
8,370	11,754	13,347	15,693	18,473	20,319 <sup>T</sup>	26,135 <sup>T</sup>	31,926 <sup>T</sup>	32,410	33,082
24,838	31,739	32,587	37,651	43,685	52,259	64,317	74,446	81,203	84,403
23,325	31,722	34,716	37,494	42,363	50,108	62,871	69,274	79,129	67,630
+108	-1,460	-4,757	-3,842	-4,301	-4,935	-4,962	-1,096	-5,346	2,669
15,417	20,062	19,663	19,985	21,090	25,360	34,884	36,456	32,638	21,777
26,618	32,882	38,216	43,636	46,597	50,360	58,355	66,193	79,604	75,079
23,551	24,927	25,694	26,727	26,487 <sup>T</sup>	26,377 <sup>T</sup>	28,068 <sup>T</sup>	29,133 <sup>T</sup>	31,632	27,672
22,043	22,364	22,697	22,993	23,258	23,476	23,671	23,936	24,342	24,603
9,276	9,639	9,974	10,206	10,498	10,882	11,207	11,522	11,830	11,879
8,761	9,125	9,284	9,479	9,648	9,972	10,369	10,655	10,933	10,574
515	514	690	727	850	911	838	867	898	1,305
5.5	5.3	6.9	7.1	8.1	8.4	7.5	7.5	7.6	11.0
135.9	142.8	141.1	144.1	144.3	146.5	150.7	152.4	155.6	146.3
66,501	79,846	93,299	107,922	118,998	129,846	145,212	163,785	186,628	197,930
119.0	122.8	115.5	122.2	125.3	129.9 <sup>T</sup>	137.8 <sup>T</sup>	135.5 <sup>T</sup>	137.7	122.8
119.1	123.4	116.2	123.1	125.5	131.9	138.1	133.7	138.5	121.5
117.8	114.0	100.9	103.1	106.1	97.8	107.1	109.6	102.4	89.9
114.1	119.3	120.4	126.4	130.1	134.4	139.3	139.8	144.8	137.6
47.6	52.8	58.5	62.9	67.9	73.9	80.7	88.9	100.0	110.8



TABLE 1. MINERAL PRODUCTION<sup>1</sup> OF CANADA, 1981 AND 1982, AND AVERAGE 1987-82

	Unit of Measure	1981		1982P		Average 1978-82	
		(Quantity)	(\$000)	(Quantity)	(\$000)	(Quantity)	(\$000)
<b>Metals</b>							
Antimony	t	..	3,121	..	4,172	2 100	6,171
Bismuth	t	168	1,121	126	762	145	1,006
Cadmium	t	834	4,121	739	2,235	993	5,928
Cobalt	t	2 080	108,383	1 458	45,379	1 706	86,121
Columbium (Cb <sub>2</sub> O <sub>5</sub> )	t	2 741	18,612	3 126	20,944	2 663	16,874
Copper	000 t	691	1,529,770	606	1,179,767	662	1,432,922
Gold	kg	52 034	922,089	62 456	929,378	54 044	798,015
Iron ore	000 t	49 551	1,748,112	34 496	1,211,657	47 133	1,537,936
Iron remelt	000 t	..	113,125	..	105,872	..	97,004
Lead	000 t	269	263,588	290	210,203	288	283,540
Molybdenum	t	12 850	288,473	15 232	327,077	13 018	285,193
Nickel	000 t	160	1,238,148	89	581,074	138	956,142
Platinum group	kg	11 902	136,186	8 590	98,889	10 039	103,158
Selenium	t	255	8,665	198	3,752	214	6,604
Silver	kg	1 129	458,134	1 204	378,761	1 163	479,092
Tantalum (Ta <sub>2</sub> O <sub>5</sub> )	t	104	23,165	60	7,947	119	14,923
Tellurium	t	31	1,089	19	723	28	1,268
Tin	t	239	3,767	153	2,750	266	4,454
Tungsten (WO <sub>3</sub> )	t	2 515	..	3 053	..	3 143	..
Uranium (U)	t	7 507	794,212	8 189	815,185	7 435	709,026
Zinc	000 t	911	1,089,587	1 033	1,108,687	999	986,818
Total metals			8,753,468		7,035,214		7,812,197
<b>Nonmetals</b>							
Asbestos	000 t	1 122	548,406	822	402,995	1 236	541,952
Barite	000 t	..	5,124	..	2,359	75	3,295
Gemstone	t	..	194	..	186	365	982
Gypsum	000 t	7 025	46,855	5 726	42,577	7 252	41,744
Magnesian dolomite and brucite	000 t	..	11,472	..	13,556	51	10,082
Nepheline syenite	000 t	588	16,770	518	17,338	582	15,881
Peat	000 t	462	51,574	447	54,399	458	45,368
Potash (K <sub>2</sub> O)	000 t	6 549	990,418	5 196	625,658	6 473	775,312
Pyrite, pyrrhotite	000 t	10	110	20	220	20	204
Quartz	000 t	2 238	34,693	1 610	32,880	2 032	28,784
Salt	000 t	7 240	131,565	8 076	161,452	7 214	124,793

Soapstone, talc & pyrophyllite	000 t	83	4,462	72	5,456	80	3,882
Sodium sulphate	000 t	535	39,404	549	47,592	477	32,395
Sulphur in smelter gas	000 t	783	47,392	579	41,027	720	28,699
Sulphur, elemental	000 t	8 018	647,652	7 108	600,302	6 970	390,617
Titanium dioxide	000 t	..	131,669	..	106,006	613	103,712
Total nonmetals	000 t		2,707,760		2,154,003		2,147,703
<b>Fuels</b>							
Coal	000 t	40 088	1,072,500	43 200	1,297,800	36 731	988,345
Natural gas	000 m <sup>3</sup>	73 824 000	6,420,631	73 783 000	7,081,678	83 550 000	5,686,089
Natural gas by-products	000 m <sup>3</sup>	18 883	2,098,376	17 965	2,154,702	18 934	1,718,182
Petroleum, crude	000 m <sup>3</sup>	74 553	9,454,124	71 095	11,627,923	78 477	8,676,558
Total fuels			19,045,631		22,162,103		17,069,174
<b>Structural materials</b>							
Clay products	000 \$	..	119,116	..	94,656	..	110,677
Cement	000 t	10 145	665,936	8 418	610,387	10 232	616,832
Lime	000 t	2 555	153,874	2 191	148,861	2 239	118,192
Sand and gravel	000 t	259 661	517,002	207 227	464,221	260 225	472,946
Stone	000 t	85 091	312,060	61 929	254,948	96 450	314,323
Total structural materials			1,767,988		1,573,073		1,632,971
<b>Other minerals<sup>2</sup></b>							
Total, all minerals		..	135,634	..	157,515	..	112,390
			32,410,481		33,081,908		28,774,435

Notes: 1 Production statistics for the following are not available for publication: diatomite, helium, nitrogen and yttrium. 2 Other minerals include calcium, magnesium, indium, arsenic trioxide, diatomite, mica, strontium, rhodium, cesium, for which the value of production is confidential.

P Preliminary; .. Not available or not applicable.

TABLE 2. CANADA, VALUE OF MINERAL PRODUCTION, PER CAPITA VALUE OF MINERAL PRODUCTION, AND POPULATION, 1953-82

	Metallics	Industrial Minerals (\$ million)	Fuels	Other Minerals <sup>1</sup>	Total	Per Capita Value of Mineral Production (\$)	Population of Canada (000)
1953	710	312	314		1,336	90.02	14,845
1954	802	353	353		1,488	97.36	15,287
1955	1,008	373	414		1,795	114.37	15,698
1956	1,146	420	519		2,085	129.65	16,081
1957	1,159	466	565		2,190	131.87	16,610
1958	1,130	460	511		2,101	122.99	17,080
1959	1,371	503	535		2,409	137.79	17,483
1960	1,407	520	566		2,493	139.48	17,870
1961	1,387	542	674		2,603	142.72	18,238
1962	1,496	574	811		2,881	155.05	18,583
1963	1,510	632	885		3,027	159.91	18,931
1964	1,702	690	973		3,365	174.45	19,291
1965	1,908	761	1,046		3,715	189.11	19,644
1966	1,985	844	1,152		3,981	198.88	20,015
1967	2,285	861	1,235		4,381	214.99	20,378
1968	2,493	886	1,343		4,722	228.10	20,701
1969	2,378	891	1,465		4,734	225.42	21,001
1970	3,073	931	1,718		5,722	268.68	21,297
1971	2,940		2,015		5,963	276.46	21,568
1972	2,956	1,008	2,367		6,408	293.92	21,802
1973	3,850	1,085	3,227		8,370	379.69	22,043
1974	4,821	1,293	5,202		11,754	525.55	22,364
1975	4,796	1,898	6,653		13,347	588.05	22,697
1976	5,315	2,269	8,109		15,693	682.51	22,993
1977	5,988	2,612	9,873		18,473	794.26	23,258
1978 <sup>r</sup>	5,682	2,986	11,578	73	20,319	865.51	23,476
1979 <sup>r</sup>	7,924	3,514	14,617	81	26,135	1,104.11	23,671
1980 <sup>r</sup>	9,666	4,201	17,944	115	31,926	1,333.79	23,936
1981 <sup>r</sup>	8,753	4,476	19,012	136	32,410	1,331.46	24,342
1982 <sup>p</sup>	7,035	3,727	22,162	158	33,082	1,344.63	24,603

<sup>1</sup> Other minerals include calcium, magnesium, indium, arsenic trioxide, diatomite, mica, strontium, rhenium, cesium, for which the value of production is confidential.

<sup>p</sup> Preliminary; <sup>r</sup> Revised.



TABLE 3. CANADA' VALUE OF MINERAL PRODUCTION BY PROVINCES, TERRITORIES AND MINERAL CLASSES, 1982P

	Metals		Industrial minerals		Fuels		Other minerals <sup>1</sup>		Total	
	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)
Alberta	161	0.0	861,763	23.1	19,293,522	87.1	-	-	20,155,446	60.9
Ontario	2,307,710	32.8	781,510	21.0	51,959	0.2	31,887	20.2	3,173,065	9.6
British Columbia	1,248,344	17.7	264,001	7.1	1,324,320	6.0	5,004	3.2	2,841,709	8.6
Saskatchewan	283,519	4.0	725,074	19.4	1,182,397	5.3	-	-	2,190,990	6.6
Quebec	1,193,851	17.0	799,397	21.4	-	-	12,803	8.1	2,006,051	6.1
Newfoundland	593,713	8.4	32,200	0.9	-	-	-	-	625,913	1.9
Northwest Territories	461,607	6.6	-	-	29,414	0.1	107,613	68.3	598,634	1.8
New Brunswick	432,629	6.1	59,376	1.6	24,571	0.1	168	0.1	516,744	1.6
Manitoba	345,818	4.9	74,616	2.1	85,920	0.4	-	-	511,355	1.5
Nova Scotia	-	-	122,086	3.3	170,000	0.8	-	-	292,086	0.9
Yukon	167,862	2.4	-	-	-	-	-	-	167,862	0.5
Prince Edward Island	-	-	2,054	0.1	-	-	-	-	2,054	0.0
Total, Canada	7,035,214	100.0	3,727,076	100.0	22,162,103	100.0	157,515	100.0	33,081,908	100.0

<sup>1</sup> Other minerals include calcium, magnesium, indium, arsenic trioxide, diatomite, mica, strontium, rhenium, cesium, for which the value of production is confidential.

P Preliminary; - Nil.

TABLE 4. PRODUCTION OF LEADING MINERALS.

	Unit of measure	Nfld.	P.E.I.	Nova Scotia	New Brunswick	Quebec	Ontario
Oil, crude	000 m <sup>3</sup>	-	-	-	1	-	89
	\$000	-	-	-	29	-	13,764
Natural gas	000 m <sup>3</sup>	-	-	-	2	-	407
	\$000	-	-	-	42	-	38,195
Natural gas byproducts	000 m <sup>3</sup>	-	-	-	-	-	-
	\$000	-	-	-	-	-	-
Coal	000 t	-	-	3,100	500	-	-
	\$000	-	-	170,000	24,500	-	-
Iron ore	000 t	17,853	-	-	-	12,122	3,748
	\$000	558,498	-	-	-	446,252	187,309
Copper	000 t	2	-	-	13	91	173
	\$000	4,813	-	-	25,000	176,660	336,307
Zinc	000 t	26	-	-	247	65	256
	\$000	28,154	-	-	265,416	70,842	275,204
Gold	kg	x	-	-	x	23	20
	\$000	1,158	-	-	2,989	346,943	293,856
Uranium (U)	t	-	-	-	-	-	5
	\$000	-	-	-	-	-	550,586
Potash (K <sub>2</sub> O)	000 t	-	-	-	-	-	-
	\$000	-	-	-	-	-	-
Cement	000 t	..	-	..	..	2,307	2,800
	\$000	4,304	-	27,670	13,066	129,987	215,208
Sulphur, elemental	000 t	-	-	-	-	-	22
	\$000	-	-	-	-	-	1,870
Nickel	000 t	-	-	-	-	-	63
	\$000	-	-	-	-	-	412,930
Sand and gravel	000 t	2,775	400	9,550	6,100	34,209	75,000
	\$000	9,380	2,054	24,206	9,635	46,479	148,208
Asbestos	000 t	13	-	-	-	731	-
	\$000	9,572	-	-	-	324,992	-
Silver	000 t	1	-	-	243	54	345
	\$000	225	-	-	76,310	16,967	108,448
Molybdenum	000 t	-	-	-	-	x	-
	\$000	-	-	-	-	6,219	-
Stone	000 t	490	-	800	2,500	23,301	30,200
	\$000	2,058	-	4,320	10,425	94,823	120,752
Lead	000 t	1	-	-	82	-	6
	\$000	833	-	-	59,261	-	4,527
Salt	000 t	-	-	1,142	..	150	5,479
	\$000	-	-	30,974	..	2,300	97,701
Lime	000 t	-	-	-	x	329	1,463
	\$000	-	-	-	3,944	22,444	99,484
Titanium dioxide	\$000	-	-	-	-	106,006	-
Iron, remelt	\$000	-	-	-	-	105,872	-
Platinum group	t	-	-	-	-	-	9
	\$000	-	-	-	-	-	98,889
Clay products	\$000	821	-	4,500	2,200	13,720	50,946
Total leading minerals	\$000	619,816	2,054	261,675	492,817	1,910,506	3 054,184
Total all minerals	\$000	625,913	2,054	292,086	516,744	2,006,051	3 173,065
Leading minerals as % of all minerals		99.0	100.0	89.6	95.4	95.2	96.3

P Preliminary; - Nil; .. Not available; x less than 1 unit.

BY PROVINCES AND TERRITORIES, 1982P

Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	N.W.T.	Total Canada
561	7,360	60,878	2,050	-	158	71,095
85,920	1,066,813	10,123,968	324,466	-	12,963	11,627,923
-	1,294	65,292	6,641	-	146	73,783
-	30,858	6,659,091	337,041	-	16,451	7,081,678
-	84	17,650	231	-	-	17,965
-	9,226	2,117,663	27,813	-	-	2,154,702
-	7,700	20,100	11,800	-	-	43,200
-	75,500	392,800	635,000	-	-	1,297,800
-	-	-	772	-	-	34,496
-	-	-	19,598	-	-	1,211,657
48	4	-	268	7	x	606
93,325	8,677	-	520,419	14,077	489	1,179,767
32	4	-	64	59	278	1,033
34,644	4,640	-	68,623	63,264	297,900	1,108,687
2	x	x	7	3	7	62
23,922	4,051	161	110,708	42,430	103,160	929,378
-	3	-	-	-	-	8
-	264,599	-	-	-	-	815,185
-	5,196	-	-	-	-	5,196
-	625,658	-	-	-	-	625,658
275	206	1,468	776	-	-	8,418
21,137	15,833	112,830	70,352	-	-	610,387
-	-	6,827	259	-	-	7,108
-	-	580,295	18,137	-	-	600,302
26	-	-	-	-	-	89
168,144	-	-	-	-	-	581,074
12,800	8,200	29,000	29,193	-	-	207,227
27,900	20,037	111,978	64,345	-	-	464,221
-	-	-	78	-	-	822
-	-	-	68,431	-	-	402,995
25	4	-	458	70	4	1,204
7,973	1,405	-	144,111	22,141	1,181	378,761
-	-	-	15	-	-	15
-	-	-	320,158	-	-	327,077
1,800	-	325	2,513	-	-	61,929
10,098	-	2,542	9,930	-	-	254,948
1	-	-	83	36	81	290
567	-	-	60,188	25,950	58,877	210,203
-	402	903	-	-	-	8,076
-	14,363	16,109	-	-	-	161,452
x	-	159	107	-	-	2,191
5,100	-	10,812	7,077	-	-	148,861
-	-	-	-	-	-	106,006
-	-	-	-	-	-	105,872
-	-	-	-	-	-	9
-	-	-	-	-	-	98,889
1,776	3,477	12,251	4,965	-	-	94,656
480,506	2,145,137	20,140,500	2,812,062	167,862	491,021	32,578,139
511,355	2,190,990	20,155,446	2,841,709	167,862	598,634	33,081,908
94.0	97.9	99.9	99.0	100.0	82.0	98.5



TABLE 5. CANADA, PERCENTAGE CONTRIBUTION OF LEADING MINERALS TO TOTAL VALUE OF MINERAL PRODUCTION, 1976-82

	1976	1977	1978	1979	1980	1981	1982P
Oil, crude	25.8	26.4	28.7	28.6	28.4	29.2	35.1
Natural gas	16.9	18.5	19.4	18.6	19.3	19.8	21.4
Natural gas byproducts	5.1	5.3	5.3	5.5	5.7	6.5	6.5
Coal	3.9	3.3	3.8	3.3	2.9	3.3	3.9
Iron ore	7.8	7.5	6.0	6.9	5.3	5.4	3.7
Copper	7.0	6.3	5.4	5.8	5.8	4.7	3.6
Zinc	5.2	4.5	4.0	4.1	2.7	3.4	3.4
Gold	1.3	1.5	1.9	2.3	3.7	2.8	2.8
Uranium (U)	1.5	1.9	3.1	2.4	2.2	2.5	2.5
Potash (K <sub>2</sub> O)	2.3	2.2	2.5	2.8	3.2	3.1	1.9
Cement	2.4	2.3	2.8	2.5	1.8	2.1	1.8
Sulphur, elemental	0.5	0.4	0.5	0.6	1.4	2.0	1.8
Nickel	7.3	6.6	3.1	3.2	4.7	3.8	1.8
Sand and gravel	2.1	2.0	2.1	1.8	1.6	1.6	1.4
Asbestos	2.9	3.1	2.6	2.3	1.9	1.7	1.2
Silver	1.1	1.1	1.2	1.8	2.6	1.4	1.1
Molybdenum	0.6	0.8	0.9	1.3	0.9	0.9	1.0
Stone	1.5	1.6	1.6	1.3	1.1	1.0	0.8
Lead	0.8	1.1	1.3	1.6	0.9	0.8	0.6
Salt	0.5	0.5	0.5	0.4	0.4	0.4	0.5
Lime	0.4	0.4	0.4	0.3	0.4	0.5	0.5
Titanium dioxide	0.5	0.4	0.4	0.3	0.4	0.4	0.3
Iron, remelt	0.4	0.4	0.4	0.2	0.4	0.4	0.3
Platinum group	0.3	0.3	0.3	0.2	0.5	0.4	0.3
Clay products	0.6	0.6	0.5	0.5	0.3	0.4	0.3
Other minerals	1.3	1.0	1.3	1.4	1.5	1.5	1.5
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

P Preliminary.

TABLE 6. CANADA, VALUE OF MINERAL PRODUCTION BY PROVINCES AND TERRITORIES, 1976-82

	1976	1977	1978	1979	1980	1981	1982P
	(\$ million)						
Alberta	6,934	8,576	10,087	12,899	16,379	17,559	20,155
Ontario	2,712	2,980	2,698	3,265	4,640	4,160	3,173
British Columbia	1,606	1,687	1,883	2,677	2,795	2,822	2,842
Saskatchewan	974	1,208	1,582	1,874	2,315	2,293	2,191
Quebec	1,493	1,675	1,796	2,165	2,467	2,420	2,006
Newfoundland	745	867	675	1,125	1,036	1,030	626
Northwest Territories	225	256	310	435	425	447	599
New Brunswick	239	289	339	480	373	531	517
Manitoba	511	564	459	653	803	642	511
Nova Scotia	127	159	211	210	247	269	292
Yukon	125	210	219	299	361	236	168
Prince Edward Island	2	2	2	2	2	2	2
Total	15,693	18,473	20,261	26,084	31,842	32,410	33,082

P Preliminary.

TABLE 7. CANADA, PERCENTAGE CONTRIBUTION OF PROVINCES AND TERRITORIES TO TOTAL VALUE OF MINERAL PRODUCTION, 1976-1982

	1976	1977	1978	1979	1980	1981	1982P
Alberta	44.2	46.4	49.8	49.5	51.4	54.2	60.9
Ontario	17.3	16.1	13.3	12.5	14.6	12.8	9.6
British Columbia	10.2	9.1	9.3	10.3	8.8	8.7	8.6
Saskatchewan	6.2	6.5	7.8	7.2	7.2	7.0	6.6
Quebec	9.5	9.1	8.9	8.3	7.7	7.5	6.1
Newfoundland	4.7	4.7	3.3	4.3	3.3	3.2	1.9
Northwest Territories	1.5	1.4	1.5	1.7	1.3	1.4	1.8
New Brunswick	1.5	1.6	1.7	1.8	1.2	1.6	1.6
Manitoba	3.3	3.1	2.3	2.5	2.5	2.0	1.5
Nova Scotia	0.8	0.9	1.0	0.8	0.8	0.8	0.9
Yukon	0.8	1.1	1.1	1.1	1.1	0.7	0.5
Prince Edward Island	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

P Preliminary.

TABLE 8. CANADA'S WORLD ROLE AS A PRODUCER OF

		World
Nickel (mine production)	t % of world total	716 100
Zinc (mine production)	000 t % of world total	6 122
Asbestos	000 t % of world total	4 480
Potash (K <sub>2</sub> O equivalent)	000 t % of world total	27 227
Sulphur, elemental	000 t % of world total	33 482
Uranium (U concentrates)	t % of world total	43 969
Titanium concentrates (ilmenite)	000 t % of world total	4 742
Gypsum	000 t % of world total	77 094
Molybdenum (Mo content)	t % of world total	107 000
Aluminum (primary metal)	000 t % of world total	15 694
Platinum group metals (mine production)	kg % of world total	211 917
Gold (mine production)	t % of world total	1 280
Lead (mine production)	t % of world total	3 462 600
Copper (mine production)	000 t % of world total	8 333
Cadmium (smelter production)	t % of world total	17 466
Silver	t % of world total	11 275
Iron ore	000 t % of world total	859 795

P Preliminary; ° Estimated.



CERTAIN IMPORTANT MINERALS, 1981P

Rank of Six Leading Countries					
1	2	3	4	5	6
Canada	U.S.S.R.	New Caledonia	Australia	Indonesia	Cuba
159 700	145 000 <sup>e</sup>	78 200	74 500	45 500	40 300 <sup>e</sup>
22.3	20.2	10.9	10.4	6.4	5.6
Canada	U.S.S.R.	Australia	Peru	U.S.A.	Japan
1 096	1 010 <sup>e</sup>	518	497	343	242
17.9	16.5	8.5	8.1	5.6	4.0
U.S.S.R.	Canada	China	Zimbabwe	South Africa	Brazil
2 105 <sup>e</sup>	1 122	250 <sup>e</sup>	248	236	138
47.0	25.0	5.6	5.5	5.3	3.1
U.S.S.R.	Canada	East Germany	West Germany	U.S.A.	France
8 449	6 549	3 490	2 591	2 156	1 831
31.0	24.1	12.8	9.5	7.9	6.7
U.S.A.	Canada	Poland	U.S.S.R.	Mexico	France
10 607	5 925	4 773	3 710	2 052	1 970
31.7	17.7	14.3	11.1	6.1	5.9
U.S.A.	Canada	South Africa	Niger	Namibia	France
14 801	7 801	6 123	4 355	3 969	2 708
33.7	17.7	13.9	9.9	9.0	6.2
Australia	Canada	Norway	U.S.A.	U.S.S.R.	South Africa
1 337	762	657	462	435 <sup>e</sup>	370
28.1	16.1	13.9	9.7	9.2	7.8
U.S.A.	Canada	France	Iran	U.S.S.R.	Spain
10 430	7 025	6 304	5 987	5 450 <sup>e</sup>	5 198
13.5	9.1	8.2	7.7	7.1	6.7
U.S.A.	Chile	Canada	U.S.S.R.	Peru	China
62 300	15 400	12 850	10 400 <sup>e</sup>	2 600	2 000 <sup>e</sup>
58.2	14.4	12.0	9.7	2.4	1.9
U.S.A.	U.S.S.R.	Canada	Japan	West Germany	Norway
4 489	2 400 <sup>e</sup>	1 118	771	729	633
28.6	15.3	7.1	4.9	4.6	4.0
U.S.S.R.	South Africa	Canada	Colombia	Australia	U.S.A.
104 198	93 312	11 902	467	297	191
49.2	44.0	5.6	0.2	0.1	0.1
South Africa	U.S.S.R.	Canada	China	Brazil	U.S.A.
658	262 <sup>e</sup>	53	47 <sup>e</sup>	35	30
51.4	20.5	4.1	3.7	2.7	2.3
U.S.S.R.	U.S.A.	Australia	Canada	Peru	China
570 000 <sup>e</sup>	454 600	388 100	332 045	186 700	160 000
16.5	13.1	11.2	9.6	5.4	4.6
U.S.A.	U.S.S.R.	Chile	Canada	Zambia	Zaire
1 538	1 140	1 081	691	587	505
18.5	13.7	13.0	8.3	7.0	6.1
U.S.S.R.	Japan	U.S.A.	Canada	Belgium	Germany
2 800	1 977	1 871	1 293	1 176	1 074
16.0	11.3	10.7	7.4	6.7	6.1
Mexico	U.S.S.R.	Peru	U.S.A.	Canada	Australia
1 655	1 580 <sup>e</sup>	1 318	1 266	1 203	723
14.7	14.0	11.7	11.2	10.7	6.5
U.S.S.R.	Brazil	Australia	U.S.A.	China	Canada
242 022	99 979	85 960	74 375	70 000 <sup>e</sup>	49 551
28.1	10.9	10.9	8.1	8.6	5.8

TABLE 9. CANADA, GROSS DOMESTIC PRODUCT BY INDUSTRY IN CONSTANT 1971 DOLLARS, 1976-1982

	1976	1977	1978	1979 (\$ million)	1980	1981	1982P
<b>Goods producing industries</b>							
Agriculture	2,947.5	3,069.7	2,996.5	2,698.5	2,908.6	3,260.5	3,348.0
Forestry	705.6	741.9	794.9	795.9	816.2	788.7	643.2
Fishing and trapping	144.4	162.3	179.5	183.7	174.1 <sup>r</sup>	160.8	184.8
Mining <sup>1</sup>	3,243.6	3,337.3	3,015.1	3,282.9	3,401.1	3,222.8	2,829.4
Manufacturing	23,413.9	23,901.6	25,139.9	36,631.8	25,846.3	26,378.5	23,131.3
Construction	6,992.0	6,856.2	6,706.0	6,887.8	6,859.2	7,344.2	6,740.7
Electrical power, gas and water utilities	3,116.0	3,311.3	3,521.6	3,685.3	3,783.7	3,977.9	3,989.7
Total	40,581.0	41,380.3	42,353.6	44,165.9	43,789.2 <sup>r</sup>	45,133.4	40,867.1
<b>Service producing industries</b>							
Transportation, storage and communication	10,419.5	10,972.8	11,462.3	12,393.9	12,756.3	13,167.2	12,634.1
Trade	13,531.4	13,710.4	14,206.5	14,686.2	14,721.2	14,763.1	13,482.3
Finance, insurance and real estate	12,683.3	13,444.8	14,119.9	14,555.0	15,041.1	15,623.9	15,629.9
Community, business and personnel services	20,469.5	21,096.3	21,888.1	22,459.9	22,771.2	23,718.0	23,552.6
Public administration and defense	7,564.7	7,736.2	7,927.5	7,884.5	7,985.6	8,145.1	8,405.3
Total	64,668.4	66,960.5	69,604.3	71,979.5	73,275.4	75,417.3	73,704.2
Grand total	105,249.4	108,340.8	111,957.9	116,145.4	117,064.6 <sup>r</sup>	120,550.7	114,571.3

<sup>1</sup> Cement, lime, clay and clay products (domestic clays) industries are included under "Manufacturing".

P Preliminary; <sup>r</sup> Revised.

TABLE 10. CANADA. CENSUS VALUE ADDED, TOTAL ACTIVITY, MINING AND MINERAL MANUFACTURING INDUSTRIES, 1975-81

	1975	1976	1977	1978	1979	1980	1981
	(\$ million)						
<b>Mining</b>							
Metallic minerals	149.9	113.7	152.0	207.6	322.8	588.8	519.0
Gold-quartz	320.8	233.7	279.8	372.7	671.9	513.6	380.3
Silver-lead-zinc	1,325.1	1,488.8	1,244.3	1,288.5	2,469.7	2,992.2	2,007.9
Nickel-copper-gold-silver	556.7	732.1	807.3	717.0	1,022.2	1,005.0	1,036.0
Iron	157.8	195.8	300.1	501.7	525.4	559.3	865.8
Uranium	53.7	74.2	118.0	138.6	179.7	243.3	150.2
Miscellaneous metal mines	2,563.9	2,838.4	2,901.4	3,226.1	5,191.6	5,902.2	4,959.3
Total							
<b>Industrial minerals</b>	230.6	373.2	474.8	401.6	456.8	473.4	431.5
Asbestos	14.9	15.8	21.0	25.9	27.5	26.9	31.3
Gypsum	20.6	23.7	27.4	33.7	38.8	42.7	47.8
Peat	298.5	262.1	301.4	360.2	613.5	900.4	889.7
Potash	45.9	70.7	70.9	77.9	86.4	93.7	98.2
Salt	102.3	99.0	91.3	85.8	91.5	92.0	98.3
Sand and gravel	111.0	111.0	106.1	110.2	121.7	123.4	122.5
Stone	40.4	42.4	45.6	44.7	53.7	59.0	72.8
Miscellaneous nonmetals	864.1	997.8	1,138.4	1,139.9	1,489.8	1,811.5	1,791.9
Total							
<b>Fuels</b>	483.5	474.3	508.5	566.8	658.6	621.6	671.1
Coal	5,838.5	7,052.0 <sup>r</sup>	8,698.3	10,078.6 <sup>r</sup>	12,554.1 <sup>r</sup>	14,917.3	15,924.6
Petroleum and natural gas	6,322.0	7,526.3 <sup>r</sup>	9,206.9	10,645.4 <sup>r</sup>	13,212.7 <sup>r</sup>	15,538.9	16,595.7
Total							
Total mining industry	9,750.0	11,362.5	13,246.7	15,011.4 <sup>r</sup>	19,894.1 <sup>r</sup>	23,252.6	23,347.0
<b>Mineral manufacturing</b>							
Primary metal industries	1,364.0	1,498.8	1,677.6	1,924.9	2,424.3	2,537.9	2,750.9
Iron and steel mills	170.3	148.8	160.3	225.1	280.4	297.6	378.3
Steel pipe & tube mills	238.1	241.9	257.7	273.8	298.2	266.9	266.0
Iron foundries	886.4	812.7	1,176.1	1,387.2	1,401.0	1,976.9	1,808.9
Smelting and refining	132.6	149.4	193.7	154.3	249.0	273.5	292.8
Aluminum rolling, casting and extruding	68.3	71.4	78.5	93.1	131.5	103.7	129.3
Copper and alloy rolling, casting and extruding	88.4	113.3	110.2	136.2	198.9	203.6	210.4
Total	948.2	3,036.3	3,654.0	4,194.7	4,983.3	5,660.1	5,836.6

(continued on following page)



TABLE 10. (cont'd)

	1975	1976	1977	1978 (\$ million)	1979	1980	1981
<b>Mineral manufacturing (cont'd)</b>							
Nonmetallic mineral products industries							
Cement manufacturers	210.3	249.1	275.0	319.9	388.8	357.3	421.4
Lime manufacturers	24.9	30.0	36.6	44.6	49.3	59.5	62.8
Concrete products manufacturers	282.1	282.1	273.5	309.3	328.7	324.6	378.5
Ready-mix concrete manufacturers	282.6	282.6	292.8	317.3	341.6	352.4	430.1
Clay products (domestic clay)	59.7	65.9	69.6	73.6	87.5	84.6	82.0
Clay products (imported clay)	41.7	39.1	39.8	43.1	44.9	51.6	50.9
Refractories manufacturers	45.8	44.4	32.5	45.3	66.6	73.6	54.5
Stone products manufacturers	14.0	16.3	19.6	22.4	28.2	33.2	40.9
Glass manufacturers	185.6	205.1	199.2	266.8	294.9	308.1	364.6
Glass products manufacturers	74.3	87.4	96.6	122.9	141.0	143.6	141.0
Abrasive manufacturers	43.9	55.1	64.1	70.6	79.4	92.1	95.9
Other nonmetallic mineral products industries							
Total	237.4	270.2	253.6	341.0	375.2	370.7	388.0
	1,502.4	1,627.3	1,652.9	1,976.8	2,226.2	2,251.3	2,510.5
<b>Petroleum and coal products industries</b>							
Petroleum refining	789.7	945.8	1,206.7	1,180.4	1,390.9	1,750.1	2,641.5
Manufacturers of lubricating oil and greases	32.6	32.6	36.8	36.9	38.3	26.7	35.0
Other petroleum and coal products industries	43.6	45.7	44.4	33.1	30.5	36.0	39.3
Total	866.0	1,024.2	1,287.9	1,250.4	1,459.8	1,812.8	2,715.8
Total mineral manufacturing	5,316.5	5,687.8	6,594.8	7,421.9	8,669.2	9,724.2	11,062.9
Total mining and mineral manufacturing	15,066.6	17,050.3 <sup>r</sup>	19,841.5	22,433.3 <sup>r</sup>	28,563.3 <sup>r</sup>	32,976.9	34,409.9

nes Not elsewhere specified; <sup>r</sup> Revised.

TABLE 11. CANADA, INDEXES OF GROSS DOMESTIC PRODUCT OF INDUSTRIAL PRODUCTION, MINING AND MINERAL MANUFACTURING, 1968-82  
(1971=100)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978 <sup>F</sup>	1979 <sup>F</sup>	1980 <sup>F</sup>	1981	1982 <sup>P</sup>
Total industrial production	87.6	93.6	94.9	100.0	107.6	119.0	122.8	115.5	122.2	125.3	129.9	137.8	135.5	137.7	122.8
Total mining	86.2	86.9	98.7	100.0	104.4	117.8	114.0	100.9	103.1	106.1	95.8	104.3	108.1	102.4	89.9
Metals	95.5	88.4	105.4	100.0	94.3	105.7	101.8	91.2	96.7	99.5	73.8	76.4	82.1	78.7	59.5
All metals															
Placer gold															
and gold															
quartz mines	121.7	118.2	105.3	100.0	90.1	80.0	68.4	67.4	69.1	68.2	65.5	60.0	54.3	55.2	75.3
Iron mines	104.8	91.9	116.1	100.0	78.7	97.4	80.4	71.4	104.6	94.7	41.5	69.0	60.0	54.7	36.9
Other metal mines	92.0	85.3	103.0	100.0	98.6 <sup>F</sup>	109.3 <sup>F</sup>	109.3 <sup>F</sup>	97.7 <sup>F</sup>	96.0 <sup>F</sup>	102.4 <sup>F</sup>	82.8	79.2	89.4	86.3	63.7
Fuels															
All fuels	73.4	80.8	92.6	100.0	114.7	130.1	124.7	112.4	107.5	108.6	109.5	122.7	120.9	113.8	113.0
Coal	68.7	68.4	87.5	100.0	105.4	115.5	116.8	137.5	128.5	125.2	138.9	156.0	171.5	184.1	193.6
Crude oil and natural gas	73.7	81.7	93.0	100.0	115.4	131.2	125.3	110.5	105.9	107.3	107.3	120.2	117.1	108.5	106.8
Nonmetals															
All metals	83.7	92.8	95.0	100.0	99.7	107.8	119.7	88.9	103.6	109.4	103.2	110.7	113.7	108.8	84.3
Asbestos	82.6	89.8	95.2	100.0	101.0	102.1	102.0	63.7	85.5	85.5	64.6	66.2	61.6	52.2	36.7
Mineral manufacturing															
Primary metals	92.9	94.9	100.9	100.0	101.3	112.2	118.7	107.0	105.6	113.2	119.5	123.4	126.4	126.9	101.7
Nonmetallic mineral products															
Petroleum	87.1	90.5	86.6	100.0	109.1	119.5	125.2	117.7	120.5	119.4	127.3	134.4	124.6	126.2	100.5
and coal products	88.7	92.1	94.4	100.0	115.3	136.1	136.8	130.9	120.0	112.1	110.8	105.5	104.4	97.6	85.3

P Preliminary; <sup>F</sup> Revised.

TABLE 12. CANADA, INDEXES OF GROSS DOMESTIC PRODUCT BY INDUSTRIES, 1968-1982 (1971=100)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978 <sup>r</sup>	1979 <sup>r</sup>	1980 <sup>r</sup>	1981	1982 <sup>p</sup>
Gross domestic product, all industries	86.9	92.2	94.4	100.0	105.9	114.1	119.3	120.4	126.4	130.1	134.5	139.5	140.6	144.8	137.6
Agriculture	85.2	90.6	89.0	100.0	88.7	96.9	89.5	103.0	109.3	113.9	111.2	100.1	107.9	121.0	124.5
Forestry	94.4	102.4	103.3	100.0	105.7	113.7	112.1	97.8	105.4	110.8	118.7	118.9	121.9	117.8	95.6
Fishing and trapping	115.6	102.6	105.4	100.0	95.7	101.6	90.2	85.8	98.0	110.1	121.8	124.6	118.1	109.1	125.4
Mines (incl. milling), quarries and oil wells	86.2	86.9	98.7	100.0	104.4	117.8	114.0	100.9	103.1	106.1	95.8	104.3	108.1	102.4	89.5
Electric power, gas and water utilities	78.2	85.4	93.3	100.0	111.1	120.3	130.1	130.5	142.0	150.9	160.5	168.0	172.5	181.3	181.3
Manufacturing	89.1	95.8	94.5	100.0	107.7	119.1	123.4	116.2	123.1	125.5	132.0	139.9	135.7	138.5	121.6
Construction	90.1	92.5	90.9	100.0	103.0	106.1	110.3	116.0	119.6	117.3	114.7	117.8	117.3	125.6	115.7
Transportation, storage and communications	82.8	89.0	94.2	100.0	108.5	117.9	125.0	126.5	134.2	141.6	148.6	159.4	164.0	170.0	164.7
Trade	87.1	91.7	93.2	100.0	109.9	119.8	129.5	132.5	138.0	139.8	144.9	149.8	150.1	150.6	137.6
Community, business and personal service	85.7	91.6	95.5	100.0	104.8	109.5	115.8	121.1	127.3	131.2	136.1	139.7	141.6	147.5	146.4
Finance, insurance and real estate	86.7	92.4	94.6	100.0	105.3	114.0	120.9	125.9	132.3	140.2	147.3	151.8	156.9	162.9	163.0
Public administration and defence	89.1	91.6	95.2	100.0	104.2	109.7	113.9	119.4	123.0	125.7	128.9	128.2	129.8	132.4	136.6

P Preliminary; <sup>r</sup> Revised.



TABLE 43 CANADA GROSS DOMESTIC PRODUCT FOR SELECTED INDUSTRIES BY PROVINCE, 1980

	New-found-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and Northwest Territories	Canada
	(\$ million)											
Agriculture	18.9	99.6	108.7	97.3	1,124.9	2,280.9	589.0	2,098.5	2,000.6	455.5	..	8,873.6
Forestry	x	x	27.0	107.9	327.3	327.3	15.3	19.6	37.5	1,193.3	-	2,099.1
Fishing, Hunting and Trapping	110.9	18.2	157.8	34.0	37.4	30.4	17.5	8.1	9.9	125.3	5.6	555.7
Mining <sup>1</sup>	410.3	-	120.0	88.6	1,123.6	2,806.1	522.6	1,333.0	9,641.6	1,464.3	368.0	17,851.2
Manufacturing	418.0	65.9	1,015.2	889.2	15,364.1	27,266.5	1,526.8	655.0	2,781.3	5,714.5	7.6	55,706.5
Construction	274.7	52.4	399.6	312.3	2,856.1	4,102.1	441.8	708.2	3,667.1	2,258.4	259.5	15,332.2
Electric power, gas and water utilities	202.4	11.7	178.6	203.3	2,390.9	3,095.8	400.1	226.2	693.0	881.3	40.6	8,323.9
Goods-producing industries	1,479.4	248.2	2,006.9	1,732.6	23,224.2	39,909.1	3,513.1	5,048.6	18,831.0	12,092.6	681.3	108,742.2

<sup>1</sup> Industry, coverage same as in Table 9.  
x confidential; .. not available; - nil.

TABLE 14. CANADA, GROSS DOMESTIC PRODUCT FOR MINING BY PROVINCE<sup>1</sup>, 1974-1980

New-found-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and Northwest Territories	Canada
(\$ million)											
1974	151.0	0.1	65.1	74.6	581.1	1,453.8	246.7	404.7	2,817.8	153.3	6,567.4
1975	212.3	-	63.5	66.9	503.2	1,128.9	170.3	445.3	3,474.6	104.8	6,771.7
1976	309.6	-	80.5	59.2	677.7	1,261.1	207.5	504.5	3,860.6	68.0	7,865.9
1977	346.6	-	113.4	65.6	737.1	1,203.1	125.4	660.5	4,804.2	155.2	9,064.6
1978	230.7	-	103.9	113.2	708.3	1,217.0	184.9	861.4	5,245.9	215.2	9,794.3
1979	459.2	-	111.1	206.4	1,175.2	1,519.9	426.4	1,045.3	7,120.6	262.2	13,921.7
1980	410.3	-	120.0	88.6	1,123.6	2,806.1	522.6	1,333.0	9,641.6	368.0	17,851.2

<sup>1</sup> Industry coverage same as in Table 9.

TABLE 15. CANADA, VALUE OF EXPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS, 1976-1982

	1976	1977	1978	1979	1980	1981	1982P
	(\$ million)						
<b>Ferrous</b>							
Crude material	984.4	1,114.9	854.5	1,469.5	1,342.9	1,540.0	1,098.6
Fabricated material	1,007.4	1,242.9	1,696.0	1,947.6	2,358.0	2,664.9	2,299.2
Total	1,991.8	2,357.9	2,550.6	3,417.1	3,701.1	4,205.0	3,397.8
<b>Nonferrous</b>							
Crude material	1,528.0	1,614.9	1,549.2	2,425.1	2,866.6	2,544.0	2,088.8
Fabricated material	2,231.3	2,578.4	3,360.9	3,807.1	6,273.8	5,615.6	4,987.5
Total	3,759.3	4,193.4	4,910.1	6,232.1	9,140.4	8,159.6	7,076.3
<b>Nonmetals</b>							
Crude material	1,103.4	1,276.1	1,369.7	1,715.3	2,305.0	2,618.7	2,168.7
Fabricated material	194.7	253.6	377.2	455.9	412.5	439.7	409.6
Total	1,298.1	1,529.6	1,746.8	2,171.2	2,717.5	3,058.3	2,578.3
<b>Mineral fuels</b>							
Crude material	4,464.0	4,428.9	4,514.9	6,128.9	7,816.8	8,022.0	8,752.4
Fabricated material	562.0	649.1	1,022.7	1,885.3	2,324.2	2,642.0	1,989.0
Total	5,026.0	5,078.0	5,537.6	8,014.2	10,141.0	10,664.0	10,741.4
<b>Total minerals and products</b>							
Crude material	8,079.8	8,434.9	8,288.2	11,738.8	14,331.4	14,724.6	14,108.5
Fabricated material	3,995.5	4,724.1	6,456.8	8,095.8	11,368.7	11,362.3	9,685.2
Total	12,075.3	13,158.9	14,745.0	19,834.7	25,700.1	26,086.9	23,793.8

P Preliminary.

TABLE 16. CANADA, VALUE OF IMPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS, 1976-1982

	1976	1977	1978	1979	1980	1981	1982P
	(\$ million)						
<b>Ferrous</b>							
Crude material	129.8	106.0	223.8	322.1	354.2	373.2	227.5
Fabricated material	1,274.0	1,501.0	1,838.3	2,533.9	2,329.0	3,303.2	2,115.1
Total	1,403.8	1,607.0	2,062.1	2,856.0	2,683.2	3,676.4	2,342.6
<b>Nonferrous</b>							
Crude material	294.6	409.0	480.9	808.1	1,778.3	1,509.4	1,263.1
Fabricated material	600.4	662.1	949.1	2,122.7	2,784.6	2,433.4	1,862.4
Total	895.0	1,071.1	1,430.0	2,930.8	4,562.9	3,942.8	3,125.5
<b>Nonmetals</b>							
Crude material	157.9	170.6	231.0	284.5	329.3	339.3	282.2
Fabricated material	413.5	472.0	526.8	644.7	724.2	805.3	671.9
Total	571.4	642.6	757.8	929.2	1,053.5	1,144.6	954.1
<b>Mineral fuels</b>							
Crude material	3,834.1	3,876.4	4,092.8	5,364.3	7,732.3	8,696.9	5,906.3
Fabricated material	219.7	299.7	344.8	394.0	687.7	881.3	863.6
Total	4,053.8	4,176.1	4,437.6	5,758.3	8,420.0	9,578.2	6,769.9
<b>Total minerals and products</b>							
Crude material	4,416.4	4,562.0	5,028.6	6,779.0	10,194.1	10,918.7	7,679.0
Fabricated material	2,507.6	2,934.8	3,659.0	5,695.3	6,525.4	7,423.3	5,513.1
Total	6,924.0	7,496.8	8,687.6	12,474.3	16,719.5	18,342.0	13,192.1

P Preliminary.



TABLE 21. CANADA, VALUE OF EXPORTS OF CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS, BY COMMODITY AND DESTINATION, 1982P

	United States	United Kingdom	E.F.T.A. <sup>1</sup>	E.E.C. <sup>2</sup>	Japan	Other Countries	Total
			(\$ 000)				
Aluminum	851,241	6,539	12,826	25,215	216,347	394,297	1,506,465
Asbestos	99,804	29,062	11,992	115,129	44,039	218,441	518,467
Copper	303,923	136,110	42,537	148,053	242,716	61,916	935,255
Fuels	9,442,910	35,306	51,510	94,131	845,915	271,609	10,741,381
Iron Ore	470,072	160,968	4,627	345,237	76,268	41,436	1,098,608
Lead	45,279	23,827	2,651	38,332	11,445	17,377	138,911
Molybdenum	31,341	21,215	1,678	115,491	53,492	14,901	238,118
Nickel	380,698	76,895	160,777	104,437	32,918	57,697	813,422
Primary ferrous metals	107,644	854	1	52,497	25,820	41,246	228,062
Uranium	346,891	11,690	-	-	-	-	358,581
Zinc	279,281	67,716	8,720	190,945	33,231	144,709	724,602
All other minerals	4,338,205	172,976	65,798	306,949	197,822	1,410,144	6,491,894
Total	16,697,289	743,158	363,117	1,536,416	1,780,013	2,673,773	23,793,766

<sup>1</sup> European Free Trade Association includes Austria, Norway, Portugal, Sweden, Switzerland, Finland and Iceland. <sup>2</sup> European Economic Community includes Belgium-Luxembourg, France, Germany, Greece, Denmark and Ireland.  
P Preliminary; - Nil.

TABLE 22. CANADA, PHYSICAL VOLUME OF IMPORT TRADE FOR SELECTED COMMODITIES, 1976-1982

		1976	1977	1978	1979	1980	1981	1982 <sup>p</sup>
Units of Weight								
<b>Crude materials</b>								
<b>Metals</b>								
Alumina	tonnes	908 055	821 596	1 056 190	952 584	985 972	1 020 550	939 282
Bauxite ore	tonnes	1 230 052	2 764 286	2 434 435	2 149 636	3 504 368	2 702 282	2 574 762
Iron ore	tonnes	3 020 130	2 505 203	4 685 868	5 912 581	5 875 292	5 794 634	3 356 580
Manganese ore	tonnes	118 972	57 644	136 446	45 150	95 161	119 746	71 658
<b>Nonmetals</b>								
Bentonite	tonnes	274 095	358 724	353 790	638 307	471 684	311 459	238 081
Clay, ground & unground	tonnes	355 760	334 431	381 486	445 231	403 282	413 040	345 389
Fluorspar	tonnes	137 310	124 494	170 237	167 904	223 940	173 599	126 954
Limestone, crushed	tonnes	3 513 824	2 922 684	2 873 601	3 215 717	2 418 330	2 526 808	1 485 420
Phosphate rock	tonnes	2 241 086	2 439 021	3 043 899	3 341 039	3 816 514	3 245 446	2 511 708
Salt & Brine	tonnes	1 523 407	1 126 225	1 330 474	1 275 627	1 151 203	1 254 992	1 526 852
Sand & Gravel	tonnes	2 085 922	1 645 665	1 810 989	1 201 915	1 209 582	1 446 872	1 179 279
Silica sand	tonnes	1 337 139	1 101 186	1 242 444	1 651 890	1 200 237	1 142 880	788 764
<b>Fuels</b>								
Coal	tonnes	14 371 622	15 026 358	13 000 320	17 381 794	15 719 025	14 687 279	15 488 032
Petroleum, crude	metres <sup>3</sup>	44 027 841	38 042 718	36 754 037	35 330 535	32 710 030	30 154 730	19 621 900
<b>Fabricated materials</b>								
<b>Metals</b>								
Aluminum & Aluminum alloy	tonnes	115 870	118 216	119 154	168 125	128 061	139 377	134 962
Ferroalloys	tonnes	95 272	93 672	101 160	167 232	118 516	117 907	64 635
Steel:								
bars & rods	tonnes	307 057	301 502	318 336	300 069	189 853	341 532	219 231
castings & forgings	tonnes	123 609	113 365	116 473	139 095	129 363	118 475	70 159
pipes & tubes	tonnes	169 916	203 238	317 031	285 144	322 121	364 803	249 672
sheets & strips	tonnes	466 172	552 606	704 502	1 039 054	582 233	1 717 433	542 110
structural shapes	tonnes	231 619	225 869	151 502	273 111	207 657	363 406	105 539
<b>Non-metals</b>								
Cement	tonnes	329 045	263 528	256 721	248 422	223 247	721 205	232 834
Fire bricks	tonnes	189 599	242 720	156 002	227 156	236 205	187 017	132 603
Phosphate fertilizers	tonnes	168 482	200 445	286 744	381 887	248 328	306 502	249 833
<b>Fuels</b>								
Coke	tonnes	876 943	1 267 895	1 527 342	1 366 182	1 311 698	1 436 037	1 064 531
Fuel oil	thousand litres	1 137 041	1 260 034	1 277 077	871 425	1 617 606	1 256 795	1 571 003

p Preliminary.

TABLE 23. CANADA, PHYSICAL VOLUME OF EXPORT TRADE FOR SELECTED COMMODITIES, 1976-82

Unit of Weight		1976	1977	1978	1979	1980	1981	1982p
<b>Crude material</b>								
<b>Metals</b>								
Copper, ores & concentrates	tonnes	294 823	279 582	282 159	315 211	286 076	276 810	252 756
Iron, ores	tonnes	44 684 868	45 060 391	31 929 094	48 849 270	39 020 922	41 452 044	27 281 254
Lead, ores & concentrates	tonnes	140 933	137 820	142 693	151 485	147 008	146 090	106 743
Zinc, ores & concentrates	tonnes	653 737	598 451	688 186	598 279	435 831	516 210	457 759
<b>Nonmetals</b>								
Asbestos, crude & fibers	tonnes	1 502 435	1 415 482	1 398 081	1 461 042	1 217 737	1 062 189	875 505
Crude refractory materials	tonnes	820 645	747 938	1 081 684	1 023 734	803 892	629 770	40 840
Gypsum	tonnes	3 798 243	4 994 323	5 178 631	5 474 764	4 960 240	5 094 873	4 775 755
Limestone, crushed	tonnes	1 287 976	1 502 492	1 710 348	2 296 295	2 214 469	1 758 299	1 517 490
Nepheline syenite	tonnes	418 975	443 763	420 961	471 056	448 468	476 281	414 785
Salt and Brine	tonnes	1 423 847	1 163 163	1 608 582	1 822 120	1 655 768	1 507 710	1 718 102
Sand and Gravel	tonnes	377 677	273 745	269 216	323 639	383 533	318 635	168 690
Sulphur, crude	tonnes	3 719 992	4 291 032	4 984 545	5 154 831	6 850 143	7 309 216	6 111 411
<b>Fuels</b>								
Coal	thousand tonnes	11 761 930	12 068 905	13 657 514	13 852 848	14 310 782	16 285 102	15 528 461
Natural gas	metres <sup>3</sup>	27 015 710	28 141 415	24 992 242	28 047 648	22 963 134	21 687 359	22 074 591
<b>Fabricated materials</b>								
<b>Metals</b>								
Aluminum, pig ingots	tonnes	510 751	655 353	863 320	551 957	784 720	725 441	896 378
Copper, refinery shapes	tonnes	322 991	294 690	247 727	191 211	335 200	262 642	232 623
Iron, pig ingots	tonnes	281 577	505 277	544 716	255 523	562 351	466 360	485 616
Lead, pig ingots	tonnes	114 421	130 819	131 950	117 992	126 538	119 815	146 132
Zinc, pig ingots	tonnes	352 071	295 358	439 260	429 352	471 949	453 526	470 397
<b>Nonmetals</b>								
Cement	tonnes	921 031	1 274 652	1 634 582	2 288 822	1 550 562	1 578 659	1 752 141
Lime, quick & hydrated	tonnes	309 355	359 540	478 551	490 863	403 166	432 845	281 137
Peat	tonnes	296 258	303 414	312 903	358 267	390 457	326 826	356 030
<b>Fuels</b>								
Butane gas, liquified	thousand litres							
Coke	tonnes	2 712 650	2 432 188	2 208 682	2 926 459	2 563 406	3 137 545	3 572 545
Fuel Oil	thousand tonnes	321 636	355 919	352 358	354 016	470 496	391 027	234 690
Gasoline	thousand tonnes	439 222	388 080	972 282	913 271	706 539	600 969	498 154
Propane gas, liquified	thousand tonnes	2 092 266	1 456 991	4 232 409	4 654 162	4 273 510	3 846 907	2 665 774
	thousand tonnes	4 048 280	5 019 524	3 543 782	4 858 175	3 879 915	3 867 950	4 513 307

P Preliminary.

TABLE 24. CANADA, APPARENT CONSUMPTION<sup>1</sup> OF SOME MINERALS, AND RELATION TO PRODUCTION<sup>2</sup>, 1980-82

TABLE 24. CANADA, APPARENT CONSUMPTION OF SOME MINERAL PRODUCTS										
Unit of Measure	1980			1981			1982 <sup>p</sup>			Consumption as % of production
	Apparent Consumption	Production	Consumption as % of production	Apparent Consumption	Production	Consumption as % of production	Apparent Consumption	Production	Consumption as % of production	
Asbestos	t	106 472	1 323 053	8.0	60 590	1 121 845	5.4	53 600	822 000	6.5
Cement	t	9 884 463	11 211 778	88.2	9 294 745	10 152 199	91.6	6 560 000	8 080 000	81.2
Gypsum	t	2 530 695	7 336 218	34.5	2 074 045	7 025 418	29.5	1 044 000	5 726 000	18.2
Iron ore	t	15 922 485	49 068 115	32.4	13 893 389	49 550 799	28.0	10 574 000	34 496 000	30.7
Lime	t	1 678 379	2 040 644	82.2	2 145 087	2 554 788	84.0	1 936 000	2 201 000	88.0
Quartz	t	3 003 599	2 251 831	133.4	3 262 119	2 238 333	145.7	2 334 000	1 610 000	145.0
silica	t	6 918 289	7 422 854	93.2	6 986 743	7 239 461	96.5	7 885 000	8 076 000	97.6
Salt										

1 "Apparent consumption" is production, plus imports, less exports. 2 "Production" refers to producers' shipments.  
p Preliminary.



TABLE 25. CANADA, REPORTED CONSUMPTION OF MINERALS AND RELATION TO PRODUCTION, 1979-81

Unit of Measure	1979				1980				1981 <sup>1</sup>			
	Consumption	Production	Consumption as % of production		Consumption	Production	Consumption as % of production		Consumption	Production	Consumption as % of production	
<b>Metals</b>												
Aluminum	398 834 <sup>2</sup>	860 287	46.4		329 400	1 068 197	30.8		336 989	1 115 691		30.2
Antimony	463 423	..	..		336 105	..	..		209 829	..		..
Bismuth	25 117	136 733	18.4		10 271	149 566	6.9		10 094	167 885		6.0
Cadmium	48 746	209 459	4.0		61 001	1 033 097	5.9		34 092	833 788		4.1
Chromium	27 205	..	..		27 900	..	..		24 771	..		..
Chromium (chromite)	114 606	1 639 624	7.0		105 225	2 118 154	5.0		101 354	2 080 395		4.9
Cobalt	210 689	636 383	33.1		195 124	716 363	27.2		216 799	691 327		31.4
Copper <sup>1</sup>	126 464	310 745	40.7		130 988	251 627	52.1		137 245	268 556		51.1
Lead <sup>2</sup>	4 450	9 015	49.4		5 412	9 252	58.5		6 094	..		..
Magnesium	61 643	..	..		157 680	..	..		288 908	..		..
Manganese ore	26 249	..	..		36 326	..	..		35 635	..		..
Mercury	1 250	11 175	11.2		1 051	11 889	8.9		1 315	12 850		10.2
Molybdenum (Mo content)	8 336	126 482	6.6		9 676	184 802	5.2		9 440	160 247		5.9
Nickel	15 773	217 759	7.2		10 795	279 626	3.9		9 414	255 369		3.7
Selenium	251 985	1 146 908	22.0		265 938	1 069 635	24.9		292 130	1 129 394		25.9
Silver	..	42 433	..		..	15 011	..		..	31 145		..
Tellurium	4 675	338	1 383.1		4 517	243	1 858.8		3 766	229		1 575.7
Tin	380 229	3 254 067	11.7		290 479	4 006 647	7.2		293 910	2 515 165		11.7
Tungsten (W content)	131 317	1 099 926	11.9		116 618	883 697	13.2		113 061	911 178		12.4
Zinc	..	..	..		..	..	..		..	..		..
<b>Nonmetals</b>												
Barite	96 315 <sup>2</sup>	73 512	131.0		138 829	94 317	147.2		94 027	78 154		120.3
Belite	4 588	..	..		4 051	..	..		4 606	..		..
Feldspar	107 004	..	..		65 492	..	..		135 378	..		..
Fluorapatite	2 208	..	..		2 576	..	..		2 239	..		..
Mica	86 788	605 699	14.3		84 873	599 699	14.2		97 734	587 565		16.6
Nepheline syenite	2 139 420 <sup>2</sup>	..	..		3 546 636	..	..		3 582 686	..		..
Phosphate rock	..	7 074 388	..		..	7 201 217	..		..	6 548 701		..
Potash (K <sub>2</sub> O)	255 059	463 279	57.5		223 222	480 666	46.4		216 913	535 214		40.5
Sodium sulphate	976 730	6 314 144	15.5		808 618	7 655 723	10.6		1 001 991	8 017 885		12.5
Sulphur	46 940	90 330	52.0		42 217	91 848	46.0		38 984	82 715		47.1
Talc, etc.	..	..	..		..	..	..		..	..		..
<b>Fuels</b>												
Coal	34 764	33 200	104.7		37 333	36 688	101.8		38 367	40 088		95.7
Natural gas <sup>3</sup>	43 506	94 426	46.0		43 255	87 108	49.7		42 886	73 824		58.1
Crude oil <sup>4</sup>	112 659	86 910	129.6		109 802	83 477	131.5		100 777	74 553		135.2

Note: Unless otherwise stated, consumption refers to reported consumption of refined metals or nonmetallic minerals by consumers. Production of metals, in most cases, refers to production in all forms, and includes the recoverable content of ores, concentrates, matte, etc., and metal content of primary products recoverable at domestic smelters and refineries. Production of nonmetals refers to producers' shipments. For fuels, production is equivalent to actual output less waste.

<sup>1</sup> Consumption defined as producers domestic shipments of refined metal. <sup>2</sup> Consumption includes primary and secondary refined metal. <sup>3</sup> Consumption defined as domestic sales. <sup>4</sup> Consumption defined as refinery receipts.

p Preliminary; - Nil; .. Not available or not applicable; r Revised.

TABLE 26. CANADA, DOMESTIC CONSUMPTION OF PRINCIPAL REFINED METALS IN RELATION TO REFINERY PRODUCTION<sup>1</sup>, 1975-81

	Unit of measure	1975	1976	1977	1978	1979	1980	1981P
<b>Copper</b>								
Domestic consumption <sup>2</sup>	tonnes	185 194	206 205	200 372	228 694	210 689	195 124	216 759
Production	tonnes	529 199	510 469	508 767	446 278	397 263	505 238	476 655
Consumption of production	%	35.0	40.4	39.4	51.2	53.0	38.6	45.5
<b>Zinc</b>								
Domestic consumption <sup>3</sup>	tonnes	98 280	98 897	105 412	121 375	131 317	116 618	113 061
Production	tonnes	426 902	472 316	494 938	495 243	580 449	591 565	618 650
Consumption of production	%	23.0	20.9	21.3	24.5	22.6	19.7	18.3
<b>Lead</b>								
Domestic consumption <sup>3</sup>	tonnes	89 192	107 654	106 962	100 762	126 464	130 988	137 245
Production	tonnes	171 517	175 720	187 457	194 054	183 769	162 463	168 450
Consumption of production	%	52.0	61.3	57.1	51.9	68.8	80.6	81.5
<b>Aluminum</b>								
Domestic consumption <sup>4</sup>	tonnes	293 280	332 206	322 393	380 291	398 834	329 400	336 989
Production	tonnes	878 056	628 049	973 524	1 048 469	860 287	1 068 197	1 115 691
Consumption of production	%	33.4	51.3	34.1	36.3	46.4	30.8	30.2

1 Production of refined metal from all sources, including metal derived from secondary materials at primary refineries.

2 Producers' domestic shipments of refined metal. 3 Consumption of primary and secondary refined metal, reported by consumers. 4 Consumption of primary refined metal, reported by consumers.

P Preliminary.

TABLE 27A. AVERAGE ANNUAL PRICES<sup>1</sup> OF SELECTED MINERALS, 1976-1982

	Unit of measure	1976	1977	1978	1979	1980	1981	1982
Aluminum, major U.S. producer <sup>3</sup>	cents/lb	44.341	51.339	53.075	59.395	69.566	57.274	44.966
Artimony, New York dealer	Cdn \$/st	1.561	1.237	1.145	1.407	1.508	1.355	1.072
Asbestos, No. 4 cement fibre	\$/lb	492.000	551.000	642.000	687.000	769.000	850.000	876.000
Bismuth, U.S. producer	\$/lb	7.500	6.010	3.378	3.011	2.637	2.044	2.300
Cadmium, U.S. producer	\$/lb	2.662	2.962	2.450	2.760	2.843	1.927	1.113
Calcium, metal crowns	\$/lb	1.335	1.482	1.680	1.868	2.502	2.831	3.050
Chromium, U.S. metal, % carbon	\$/lb	2.640	2.900	3.080	3.375	4.017	4.450	4.450
Cobalt metal, shot/cathode/250 kg	\$/lb	4.508	5.633	12.246	24.583	25.000	21.429 <sup>7</sup>	12.500
Columbium, pyrochlore	\$/lb	n	n	0.695	2.550	2.550	3.250	3.250
Copper, electrolytic cathode	Cdn \$/lb	0.684	n	0.746	1.076	1.178	1.004	0.885
Gold, London <sup>4</sup>	Cdn \$/troy oz	123.107	157.089	220.407	359.289	716.087	551.178	465.102
Iridium, major producer	Cdn cents/lb	316.667	300.000	300.000	298.333	505.833	600.000	600.000
Iron ore, taconite pellets	cents/tu	51.012	55.300	57.108	63.966	69.562	80.073	80.500
Lead, producer	Cdn cents/lb	22.650	31.420	36.820	59.920	49.350	44.520	32.887
Magnesium, U.S. metal, regular	cents/lb	55.333	58.000	58.000	58.333	65.267	70.000	86.274
Magnesium, U.S. primary ingot	cents/lb	89.537	97.487	100.500	105.758	116.667	130.250	134.000
Mercury, New York	\$/flask (76 lb)	121.302	135.710	153.322	281.096	389.447	413.885	370.934
Molybdenum, climax concentrate	\$/lb	2.999	3.730	4.644	7.762	9.768	8.493	9.740
Nickel, major producer	\$/lb	2.256	2.360	2.091	2.707	3.415	3.429	3.200
Osmium, major producer	\$/troy oz	200.000	170.000	150.000	150.000	150.000	150.000	139.167
Palladium, major producer	\$/troy oz	50.928	59.702	70.873	113.143	213.975	129.500	110.000
Platinum, major producer	\$/troy oz	161.729	162.544	237.250	351.649	439.425	475.000	475.000
Potash, K <sub>2</sub> O, coarse major producer	cents/lb	74.667	76.000	80.583	100.417	112.667	120.750	119.615
Rhodium, major producer	\$/troy oz	350.000	441.667	516.667	757.500	764.583	639.583	600.000
Ruthenium, major producer	\$/troy oz	60.000	60.000	60.000	45.000	45.000	45.000	45.000
Selenium, major producer commercial	\$/lb	18.000	17.000	15.000	12.250	9.654	**	**
Silver, fob Toronto	Cdn \$/troy oz	4.298	4.920	6.171	12.974	24.099	12.617	9.831
Sulphur, elemental, major producer <sup>5</sup>	Cdn \$/lt	17.204	15.678	17.913	25.665	30.740	59.323	66.923
Tantalum, Tanco	\$/lb	16.000	17.500	26.479	60.014	97.604	100.850	48.958
Tellurium, major producer, slab	\$/lb	10.500	17.416	20.000	20.000	19.500	**	**
Tin	Cdn \$/lb	3.822	5.779	7.265	8.898	10.008	8.893	8.144
Titanium, ilmenite ore	\$/lt	55.000	55.000	53.229	51.083	55.000	68.021	70.000
Tungsten, U.S. hydrogen red	\$/lb	10.087	14.065	13.900	13.900	13.900	13.900	13.350
Uranium, U3O8 <sup>6</sup>	Cdn \$/lb	40.388	42.311	48.081	50.004	51.927	42.311	44.234
Vanadium, pentoxide metal	\$/lb	2.600	2.750	2.900	3.050	3.050	3.250	3.350
Zinc, special high grade	Cdn cents/lb	37.620	35.530	34.757	43.717	44.050	54.240	48.667

1 Prices except for noted, are in United States currency. 2 Sources for prices include: Alberta Energy Resource Industries Monthly Statistics, Asbestos, Engineering and Mining Journal, Metals Week and Northern Miner. 3 Start ing 1981, London Metal Exchange. 4 Average afternoon fixings of London bullion dealers, converted to Canadian dollar. 5 Starting 1980, North American deliveries. 6 From EMR publications on assessment of Canada's uranium supply and demand series EP 76-3 to EP 82-3. 7 Seven month average.

\*\* Not available; n Nominal.

TABLE 278. CANADIAN AVERAGE ANNUAL PRICES OF SELECTED MINERALS, 1976-1982<sup>1</sup>

	Unit of measure						
	1976	1977	1978	1979	1980	1981	1982
Aluminum, major U.S. producer <sup>2</sup>	\$/kg	1.204	1.334	1.534	1.793	1.514	1.223
Antimony, New York dealer	\$/kg	2.900	2.879	3.634	3.887	3.582	2.917
Asbestos, No. 4 cement fibre	\$/mt	542.337	607.373	707.684	847.677	936.664	965.625
Bismuth, U.S. producer	\$/kg	16.305	14.091	8.495	6.796	5.403	6.258
Cadmium, U.S. producer	\$/kg	5.787	6.945	6.161	7.327	5.094	3.028
Calcium, metal crowns	\$/kg	2.902	3.475	4.225	6.448	7.483	8.298
Chromium, U.S. metal, % carbon	\$/kg	5.739	6.799	7.745	10.353	11.763	12.107
Cobalt metal, shot/cathode/250 kg	\$/kg	9.800	13.207	30.795	64.430	56.610 <sup>6</sup>	34.009
Columbium, pyrochlore	\$/kg	n	n	6.413	6.572	8.591	8.842
Copper, electrolytic cathode	\$/kg	1.508	1.532	2.372	2.597	2.213	1.951
Gold, London <sup>3</sup>	\$/gm	3.958	5.051	11.551	23.023	17.721	14.953
Iridium, major producer	\$/gm	10.040	10.258	11.002	9.730	23.129	23.806
Iron Ore, taconite pellets	\$/kg	49.508	57.883	64.086	80.034	94.490	97.776
Lead, producer	\$/kg	49.935	69.269	81.174	108.798	98.150	72.503
Manganese, U.S. metal, regular	\$/kg	1.203	1.360	1.459	1.507	1.850	2.347
Magnesium, U.S. primary ingot	\$/kg	1.947	2.286	2.527	3.007	3.443	3.646
Mercury, New York	\$/kg	3.470	3.376	5.073	13.206	14.395	13.279
Molybdenum, climax concentrate	\$/kg	6.520	8.745	11.678	25.174	22.450	26.500
Nickel, major producer cathode	\$/kg	4.905	5.533	5.258	8.801	9.064	8.706
Osmium, major producer	\$/gm	6.341	5.813	5.501	5.638	5.782	5.522
Palladium, major producer	\$/gm	1.615	2.041	2.599	4.262	4.992	4.364
Potash, K <sub>2</sub> O, coarse major producer	\$/gm	5.127	5.558	8.701	13.245	18.310	18.847
Rhodium, major producer	\$/kg	1.623	1.782	2.026	2.594	3.192	3.254
Ruthenium, major producer	\$/gm	11.096	15.102	18.948	27.778	24.655	23.806
Selenium, major producer commercial	\$/gm	1.902	2.052	2.200	1.695	1.735	1.765
Silver, fob Toronto	\$/kg	39.132	39.858	37.721	31.639	..	..
Sulphur, elemental, major producer <sup>4</sup>	\$/kg	138.184	158.182	198.402	417.124	405.646	316.074
Tantalum, major producer <sup>4</sup>	\$/mt	16.932	15.430	17.630	25.260	58.386	65.866
Tellurium, fob Toronto	\$/kg	34.784	41.617	66.587	155.002	266.524	133.201
Tin	\$/kg	22.827	40.834	50.294	51.655	..	..
Titanium, ilmenite ore	\$/kg	8.426	12.740	16.017	19.617	19.606	17.954
Titanium, U <sup>5</sup>	\$/mt	55.106	59.431	61.691	60.805	82.865	87.773
Uranium, U <sup>5</sup>	\$/kg	105.000	110.000	125.000	130.000	110.000	115.000
Vanadium, pentoxide metal	\$/kg	5.652	6.448	7.293	7.877	8.591	9.114
Zinc, special high grade	\$/kg	0.829	0.783	0.766	0.964	1.196	1.073

1 Sources for prices include: Alberta Energy Resource Industries Monthly Statistics, Asbestos, Engineering and Mining Journal, Metals Week and Northern Miner. 2 Starting 1981, London Metal Exchange. 3 Average afternoon fixings of London bullion dealers, converted to Canadian dollar. 4 Starting 1980, North American deliveries. 5 From ENR publications on assessment of Canada's uranium supply and demand series EP 76-3 to EP 82-3. 6 Seven month average. .. Not available; n Nominal.



TABLE 28. CANADA, MINERAL PRODUCTS INDUSTRIES, SELLING PRICE INDEXES, 1976-82 (1971 = 100)

	1976	1977	1978	1979	1980	1981	1982P
<b>Iron and steel products industries</b>							
Agricultural implements industry	165.7	177.6	188.7	206.0	224.9	260.2	293.1
Hardware, tool and cutlery manufacturers	147.3	162.6	179.1	207.3	238.4	268.2	296.0
Heating equipment manufacturers	146.9	156.5	169.8	188.0	215.2	236.5	267.7
Primary metal industries	169.9	190.5	207.7	258.8	308.3	312.6	310.7
Iron and steel mills	177.2	187.9	203.9	233.7	261.7	290.3	314.2
Steel pipe and tube mills	179.1	197.8	218.0	248.1	276.9	322.1	362.6
Iron foundries	181.0	189.6	200.1	223.3	243.2	261.8	268.9
Wire and wire products manufacturers	171.0	175.4	185.8	206.4	226.9	242.4	249.6
<b>Nonferrous metal products industries</b>							
Aluminum rolling, casting and extruding	155.8	173.6	191.5	234.0	271.0	292.6	290.9
Copper and alloy, rolling, casting and extruding	138.4	144.5	153.0	201.8	219.7	205.8	193.0
Jewellery and silverware manufacturers	235.2	277.8	337.6	507.3	871.3	676.1	609.5
Metal rolling, casting and extruding, nes	181.0	216.3	239.8	310.4	327.3	325.7	314.0
<b>Nonmetallic mineral products industries</b>							
Abrasives manufacturers	167.5	194.7	223.6	255.3	290.6	325.1	361.8
Cement manufacturers	171.1	186.7	207.5	233.2	265.7	308.0	359.7
Clay products and manufacturers from imported clay	161.7	164.7	173.7	190.1	215.2	251.9	278.0
Glass and glass products manufacturers	138.6	150.4	162.1	173.4	197.0	223.2	250.2
Lime manufacturers	204.3	228.7	252.9	292.7	338.3	396.1	453.2
Concrete products manufacturers	161.5	173.7	187.7	200.1	222.5	259.4	296.7
Clay products from domestic clay	169.6	182.8	196.4	214.3	226.9	243.0	269.9
Petroleum and coal products industries	210.2	244.5	275.4	321.3	404.6	551.7	634.4
Petroleum refineries	211.5	246.7	278.7	325.8	410.6	559.8	643.7
Mixed fertilizers	176.9	180.2	191.0	229.0	280.3	289.5	294.5

P Preliminary; nes Not elsewhere specified.

TABLE 29. CANADA, PRINCIPAL STATISTICS OF THE MINING INDUSTRY<sup>1</sup>, 1981

	Mining Activity										Total Activity <sup>2</sup>	
	Production and Related Workers					Costs						
	Establish- ments (number)	Employees (number)	Man- hours paid (000)	Wages (\$000)	Fuel and Electri- city (\$000)	Materials and Supplies (\$000)	Value of Production (\$000)	Value Added (\$000)	Employees (number)	Salaries and Wages (\$000)	Value Added (\$000)	
<b>Metals</b>												
Gold quartz	33	5,600	11,510	136,782	27,168	146,172	693,404	520,064	6,809	169,138	518,994	
Silver-lead-zinc	25	5,506	11,489	148,251	57,264	578,140	1,015,523	380,119	7,740	218,931	380,286	
Nickel-copper-gold- silver	41	24,604	48,999	589,157	174,941	1,658,519	3,811,812	1,978,352	33,246	847,020	2,077,927	
Iron	14	7,865	16,297	226,619	189,606	567,279	1,832,266	1,075,381	12,397	374,429	1,036,019	
Uranium	8	4,764	9,825	133,822	40,687	191,540	1,092,068	859,841	6,869	197,737	865,847	
Misc. metal mines	7	1,247	2,511	30,916	13,629	50,180	212,799	148,990	1,651	43,412	150,181	
Total	128	49,586	100,631	1,265,247	503,295	3,191,830	8,657,872	4,962,747	68,712	1,850,667	4,959,254	
<b>Nonmetals</b>												
Asbestos	9	5,395	11,112	132,795	57,203	108,361	597,711	432,147	6,829	172,879	431,493	
Gypsum	10	594	1,336	10,000	3,726	14,151	49,483	31,606	711	12,577	31,316	
Peat	57	1,188	2,380	17,379	3,332	14,761	65,012	46,920	1,441	22,187	47,511	
Potash	10	3,578	6,826	84,590	72,754	92,931	1,054,560	888,894	4,661	123,816	889,746	
Salt	9	946	2,031	21,123	12,340	22,538	133,525	98,647	1,439	33,125	98,237	
Sand and gravel	106	1,215	2,636	23,577	11,701	26,730	134,332	95,902	1,765	36,147	98,329	
Stone	113	1,894	4,181	40,659	18,406	56,785	194,750	119,559	2,418	52,353	122,515	
Misc. nonmetals	30	1,056	2,318	22,180	19,023	23,476	115,101	72,602	1,310	28,070	72,790	
Total	344	15,666	32,820	352,302	198,466	359,730	2,344,474	1,786,275	20,574	481,154	1,791,937	
<b>Fuels</b>												
Coal	27	9,188	19,348	237,161	68,024	302,664	1,044,462	673,774	11,182	300,261	671,148	
Oil, crude and natural gas	862	6,696	14,509	198,750	118,769	412,410	16,413,222	15,881,979	28,783	807,863	15,924,652	
Total	889	15,884	33,857	435,911	186,793	715,074	17,457,684	16,555,753	39,965	1,108,124	16,595,800	
Total mining industry	1,361	81,136	167,308	2,053,761	888,554	4,266,634	28,460,030	23,304,775	129,251	3,439,945	23,346,991	

1 Cement manufacturing, lime manufacturers, clay and clay products (domestic clays) are included in the mineral manufacturing industry. Industry coverage is the same as in Tables 31, 33, 35 and 37. 2 Total activity includes sales and head offices.

TABLE 30. CANADA, PRINCIPAL STATISTICS OF THE MINERAL MANUFACTURING INDUSTRIES<sup>1</sup>, 1981

	Establish- ments (number)	Production and related workers				Mineral Manufacturing Activity				Total Activity <sup>2</sup>			
		Employees (number)	Man- hours paid (000)	Wages (\$000)	Fuel and Electricity (\$000)	Materials and Supplies (\$000)	Value of Production (\$000)	Value Added (\$000)	Employees (number)	Salaries and Wages (\$000)	Value Added (\$000)		
<b>Primary metal industries</b>													
Iron and steel mills	53	42,819	89,321	1,004,543	426,522	3,888,624	6,996,870	2,736,895	56,543	1,407,299	2,750,934		
Steel pipe and tube mills	33	6,346	13,211	141,370	25,046	952,723	1,322,940	374,825	7,531	174,560	378,256		
Iron foundries	110	6,830	14,123	128,131	27,282	241,252	517,671	265,418	8,358	166,705	265,969		
Smelting and refining	33	25,093	51,469	629,311	365,045	1,419,410	3,287,270	1,738,567	38,011	1,002,650	1,808,939		
Aluminum rolling, casting and extruding	75	4,699	10,123	95,882	24,539	831,329	1,148,123	293,204	6,512	144,624	292,835		
Copper and alloy rolling, casting and extruding	41	2,472	5,112	50,528	11,099	448,470	595,726	131,998	3,031	64,748	129,260		
Metals rolling, casting and extruding, nes	94	4,078	8,292	70,254	15,867	357,074	580,881	205,674	5,182	98,223	210,370		
Total	439	92,337	191,631	2,120,019	893,560	8,139,082	14,449,481	5,786,581	125,168	3,058,809	5,836,563		
<b>Nonmetallic mineral products industries</b>													
Cement manufacturers	27	2,997	6,428	80,143	154,346	140,140	695,872	410,680	4,726	126,677	421,404		
Lime manufacturers	15	728	1,581	16,748	48,557	20,654	131,274	62,824	968	22,818	62,793		
Concrete products manufacturers	475	6,791	13,889	134,439	20,819	259,839	643,135	371,247	9,121	191,281	378,461		
Ready-mix concrete manufacturers	527	7,698	16,031	173,640	41,845	639,566	1,085,326	402,313	10,053	226,960	430,145		
Clay products manufacturers (domestic)	84	1,725	3,634	30,935	21,045	26,466	123,526	81,879	2,238	44,048	82,022		
Clay products manufacturers (imported)	47	1,554	3,081	24,660	4,735	29,721	85,124	49,288	1,907	31,990	50,897		
Refractories manufacturers	17	865	1,694	15,953	5,462	73,680	132,088	51,374	1,489	32,627	54,497		
Stone products manufacturers	133	1,224	2,284	18,743	1,410	26,115	68,089	41,123	1,410	22,411	40,899		
Glass manufacturers	14	6,412	13,775	130,125	58,370	170,617	587,644	368,519	8,476	179,415	364,562		
Glass products manufacturers	111	2,925	5,976	51,416	7,265	127,693	269,107	138,335	3,527	66,660	140,996		
Abrasive manufacturers	26	1,897	3,833	35,194	25,489	108,527	277,655	93,445	2,571	51,595	95,905		
Other nonmetallic mineral products industries	98	5,329	11,027	106,570	57,781	310,882	720,447	357,898	8,783	191,973	387,951		
Total	1,574	40,145	83,233	818,566	447,124	1,934,100	4,769,287	2,428,925	55,269	1,188,455	2,510,532		
<b>Petroleum and coal products industries</b>													
Petroleum refining industry	40	7,566	17,101	231,701	212,303	17,801,168	19,957,989	2,621,924	21,325	657,519	2,691,497		
Manufacture of lubricating oils & greases	20	444	923	8,578	1,750	155,020	185,738	30,324	705	15,263	35,041		
Other petroleum & coal products industries	51	422	873	8,920	3,916	95,768	132,734	34,252	584	12,847	39,304		
Total	111	8,432	18,897	249,199	217,969	18,051,956	20,276,461	2,686,500	22,614	685,629	2,715,842		
Total, mineral manufacturing industries	2,124	140,914	293,781	3,187,784	1,540,453	28,125,138	39,495,229	10,862,006	203,051	4,932,893	11,062,937		

<sup>1</sup> Industry coverage is the same as in Tables 32, 34, 36 and 38. <sup>2</sup> Includes sales and head offices.  
 n.e.s. Not elsewhere specified.

TABLE 31. CANADA, PRINCIPAL STATISTICS OF THE MINERAL INDUSTRY<sup>1</sup> BY REGION, 1981

	Mines, Quarries and Oil Well Activity <sup>2</sup>										Total Activity <sup>2</sup>		
	Production and Related Workers					Costs							
	Establis- ments (number)	Employees (number)	Man- hours paid (000)	Wages (\$000)	Fuel and Electri- city (\$000)	Materials and Supplies (\$000)	Value of Production (\$000)	Value Added (\$000)	Employees (number)	Salaries and Wages (\$000)	Value Added (\$000)		
Atlantic <sup>3</sup>	112	11,384	23,705	267,585	128,362	622,696	1,617,359	866,236	13,472	332,841	866,694		
Quebec	190	15,230	32,499	382,295	175,403	596,415	2,019,829	1,248,010	22,295	582,745	1,235,458		
Ontario	160	23,023	46,058	532,185	138,095	1,238,321	3,563,800	2,187,383	31,499	779,678	2,199,902		
Prairies	622	17,690	35,707	449,608	260,679	822,446	18,236,161	17,153,035	42,897	1,149,845	17,197,853		
British Columbia <sup>4</sup>	208	10,897	22,959	309,334	148,616	725,179	2,499,455	1,625,658	14,893	441,047	1,627,948		
Yukon and Northwest Territories <sup>5</sup>	69	2,912	6,380	112,753	37,396	261,578	523,427	224,453	4,195	153,788	219,135		
Canada	1,361	81,136	167,308	2,053,761	888,554	4,266,634	28,460,030	23,304,775	129,251	3,439,945	23,346,991		

<sup>1</sup>Cement manufacturing, lime manufacturing, clay and clay products are included in the mineral manufacturing industry. Industry coverage is the same as in Tables 29, 33, 35 and 37. <sup>2</sup>Total activity includes sales and head offices. <sup>3</sup>Includes eastern Canada offshore. <sup>4</sup>Includes western Canada offshore. <sup>5</sup>Includes Arctic Islands and offshore.



TABLE 32. STATISTICS OF THE MINERAL MANUFACTURING INDUSTRY<sup>1</sup> BY REGION, 1981

	Mineral Manufacturing Activity <sup>2</sup>										Total Activity <sup>2</sup>	
	Production and Related Workers					Costs						
	Establish- ments (number)	Employees (number)	Man- hours paid (000)	Wages (\$000)	Fuel and Electricity (\$000)	Materials and Supplies (\$000)	Value of Production (\$000)	Value Added (\$000)	Employees (number)	Salaries and Wages (\$000)	Value Added (\$000)	
Atlantic Provinces	136	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	
Quebec	530	31,775	66,122	738,299	472,955	7,197,068	10,041,898	2,791,274	48,097	1,168,962	2,826,658	
Ontario	842	72,911	160,972	1,691,904	754,008	11,618,427	17,800,348	5,700,945	110,612	2,661,846	5,753,343	
Prairie Provinces	373	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	
British Columbia	241	11,233	22,993	300,377	74,555	2,385,977	3,248,875	928,914	16,386	450,550	1,027,151	
Yukon and Northwest Territories	2	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	
Canada	2,124	140,914	293,781	3,187,784	1,560,453	28,125,138	39,495,229	10,862,006	203,051	4,932,893	11,062,937	

<sup>1</sup>Industry coverage same as in Tables 30, 34, 36 and 38. <sup>2</sup>Includes sales and head offices. <sup>3</sup>Confidential, included in Canadian total.

TABLE 33. CANADA, PRINCIPAL STATISTICS OF THE MINING INDUSTRY<sup>1</sup>, 1975-1981

	Mineral Manufacturing Activity										Total Activity <sup>2</sup>
	Production and Related Workers				Costs						
	Establish- ments (number)	Employees (number)	Man- hours paid (000)	Wages (\$000)	Fuel and Electri- city (\$000)	Materials and Supplies (\$000)	Value of Production (\$000)	Value Added (\$000)	Employees (number)	Salaries and Wages (\$000)	Value Added (\$000)
1975	1,345	77,091	159,431	1,030,009	319,496	2,214,191	12,240,016	9,706,329	115,715	1,655,278	9,750,032
1976	1,244	78,989	163,426	1,185,184	401,899	2,438,672	14,178,010	11,337,439	117,694	1,902,682	11,360,511
1977	1,232 <sup>r</sup>	79,902	167,884	1,342,508	473,202	2,715,468	16,400,460	13,211,792	119,061 <sup>r</sup>	2,137,523	13,246,689
1978	1,179	70,306	150,291	1,275,008	501,335	2,766,072	18,201,459	14,934,052	109,948	2,118,342	15,016,214
1979	1,150	72,580	152,560	1,493,773	600,448	3,252,991	23,546,742	19,693,303	115,245	2,492,715	19,899,635
1980	1,323	80,066	166,427	1,779,389	706,405	3,802,062	27,661,246	23,152,778	126,422	2,979,470	23,347,682
1981	1,361	81,136	167,308	2,053,761	888,554	4,266,634	28,460,030	23,304,775	129,251	3,439,945	23,346,991

<sup>1</sup> Cement manufacturing, lime manufacturers, clay and clay products (domestic clays) are included in the mineral manufacturing industries. Industry coverage is the same as in Tables 29, 31, 35 and 37. <sup>2</sup> Includes sales and head offices.  
r Revised.

TABLE 34. CANADA, PRINCIPAL STATISTICS OF THE MINERAL MANUFACTURING INDUSTRIES<sup>1</sup>, 1975-1981

	Mineral Manufacturing Activity										Total Activity <sup>2</sup>
	Production and Related Workers					Costs					
	Establish- ments (number)	Employees (number)	Man- hours paid (000)	Wages (\$000)	Fuel and electricity (\$000)	Materials and supplies (\$000)	Value of production (\$000)	Value added (\$000)	Employees (number)	Salaries and wages (\$000)	Value added (\$000)
1975	1,680	140,195	290,264	1,712,892	541,650	9,724,522	15,205,070	5,183,708	193,526	2,580,313	5,316,534
1976	1,662	137,310	284,392	1,898,753	655,828	10,798,653	16,793,147	5,548,868	188,751	2,820,873	5,687,750
1977	1,616	138,700	288,409	2,110,400	798,486	12,743,217	19,725,082	6,489,111	189,576	3,114,744	6,594,794
1978	2,022	143,917	297,554	2,365,782	981,506	15,700,614	24,036,539	7,272,298	198,085	3,494,336	7,421,897
1979	2,115	145,929	308,770	2,614,816	1,118,146	19,116,369	28,318,690	8,522,128	202,695	3,910,454	8,669,240
1980	2,143	146,606	308,312	2,927,363	1,272,902	22,045,572	32,177,335	9,417,966	204,872	4,386,065	9,599,868
1981	2,124	140,914	293,781	3,187,784	1,560,453	28,125,138	39,495,229	10,862,006	203,051	4,932,893	11,062,937

<sup>1</sup> Industry coverage is the same as in Tables 30, 32, 36 and 38. <sup>2</sup> Includes sales and head offices.

TABLE 35. CANADA, CONSUMPTION OF FUEL AND ELECTRICITY IN THE MINING INDUSTRY<sup>1</sup>, 1981

	Unit	Metals	Nonmetals	Fuels	Total
Coal and coke	000 t	132	-	-	132
	\$000	5,111	-	-	5,111
Gasoline	000 litres	27 332	21 814	9 157	58 303
	\$000	8,962	7,050	2,816	18,828
Fuel oil, kerosene, diesel oil	000 litres	1 251 094	308 245	122 209	1 681 548
	\$000	242,528	70,731	31,288	344,547
Liquefied petroleum gas	000 litres	98 884	6 721	4 217	109 822
	\$000	16,696	1 431	806	18,933
Natural gas	000 m <sup>3</sup>	175 817	802 579	157 000	1 135 396
	\$000	18,994	62,957	12,081	94,032
Other fuels <sup>2</sup>	\$000	1,686	-	-	1,686
Total value of fuels	\$000	293,979	142,169	46,991	483,139
Electricity purchased	million kwh	10 494	2 100	3 740	16 334
	\$000	209,316	56,297	139,802	405,415
Total value of fuels and electricity purchased, all reporting companies	\$000	503,295	198,466	186,793	888,554

<sup>1</sup> Cement and lime manufacturing and manufacturers of clay products (domestic clays) are included under mineral manufacturing, Tables 36 and 38. Industry coverage is the same as in Tables 29, 31, 33 and 37. <sup>2</sup> Includes wood, manufactured gas, steam purchased and other miscellaneous fuels.

- Nil.

Note: Totals may not add due to rounding.



TABLE 36. CANADA, CONSUMPTION OF FUEL AND ELECTRICITY IN THE MINERAL MANUFACTURING INDUSTRIES<sup>1</sup>, 1981

	Unit	Primary Metal Industries	Nonmetallic Mineral Products Industries	Petroleum and Coal Products Industries	Total
Coal and coke	000 t	335	576	-	911
	\$000	37,266	30,449	-	67,715
Gasoline	000 litres	17 466	30 889	2 693	51 048
	\$000	5,382	9,658	840	15,880
Fuel oil, kerosene, diesel oil	000 litres	1 207 588	539 645	11 140	1 758 373
	\$000	195,911	99,267	2,417	297,595
Liquefied petroleum gas	000 litres	36 248	22 645	1 098	59 992
	\$000	6,306	3,897	173	10,376
Natural gas	000 m <sup>3</sup>	2 691 919	1 773 697	1 226 163	5 691 779
	\$000	288,597	178,924	127,161	594,682
Other fuels	\$000	4,714	10,866	6,873	22,453
Total value of fuels	\$000	538,175	333,061	137,463	1,008,699
Electricity purchased	million kWh	20 429	4 573	3 669	28 671
	\$000	357,186	114,062	80,517	551,765
Total value of fuels and electricity purchased, all reporting companies	\$000	895,361	447,123	217,980	1,560,464

<sup>1</sup> Industry coverage is the same as in Tables 30, 32, 34 and 38.

- Nil.

TABLE 37. CANADA, COST OF FUEL AND ELECTRICITY USED IN THE MINING INDUSTRY<sup>1</sup>, 1975-81

Unit		1975	1976	1977	1978	1979	1980	1981
<b>Metals</b>								
<b>Fuel</b>								
Electricity purchased	\$000	107,808	128,637	148,578	153,608	193,828	220,052	293,979
	million kWh	10 259	11 326	11 713	10 739	11 459	11 024	10 494
	\$000	85,063	107,318	135,014	132,100	153,905	174,837	209,316
Total cost of fuel and electricity		\$000	192,871	235,955	283,591	285,708	347,733	503,295
<b>Nonmetals<sup>2</sup></b>								
<b>Fuel</b>								
Electricity purchased	\$000	46,561	62,453	72,946	79,090	92,499	112,672	142,169
	million kWh	1 763	1 959	2 457	2 082	2 244	2 269	2 100
	\$000	20,049	23,401	29,510	35,141	42,982	48,336	56,297
Total cost of fuel and electricity		\$000	66,610	85,854	102,456	114,231	135,481	198,466
<b>Fuels</b>								
<b>Fuels</b>								
Electricity purchased	\$000	11,352	12,015	15,117	19,774	23,988	32,582	46,991
	million kWh	2 539	2 770	2 791	2 699	3 238	3 504	3 740
	\$000	48,663	68,075	72,035	81,624	98,783	117,927	139,802
Total cost of fuel and electricity		\$000	60,015	80,090	87,152	101,398	122,771	186,793
<b>Total mining industry</b>								
<b>Fuel</b>								
Electricity purchased	\$000	165,721	203,105	236,642	252,470	310,315	365,306	483,139
	million kWh	14 560	16 055	16 961	15 520	16 941	16 797	16 334
	\$000	153,775	198,794	236,559	248,865	295,670	341,100	405,415
Total cost of fuel and electricity		\$000	319,496	401,899	473,201	501,335	605,985	888,554

<sup>1</sup> Cement and lime manufacturing and manufacture of clay products (domestic clays) are included in mineral manufacturing, Tables 36 and 38. Industry coverage is the same as in Tables 29, 31, 33 and 35. <sup>2</sup> Includes structural materials.

TABLE 38. CANADA, COST OF FUEL AND ELECTRICITY USED IN THE MINERAL MANUFACTURING INDUSTRIES<sup>1</sup>, 1975-81

Unit		1975	1976	1977	1978	1979	1980	1981
<b>Primary metals</b>								
Fuel	\$ 000	187,846	224,928	279,172	336,684	357,775	421,426	538,175
Electricity purchased	million kWh	16 544	16 497	15 352	17 257	18 451	20 535	20 429
Total cost of fuel and electricity	\$ 000	129,750	151,011	183,574	226,313	260,317	316,884	357,186
<b>Nonmetallic mineral products</b>								
Fuel	\$ 000	317,596	375,939	462,746	562,997	618,092	738,317	895,361
Electricity purchased	million kWh	133,016	162,312	181,952	221,855	280,846	271,481	333,061
Total cost of fuel and electricity	\$ 000	3 723	4 137	4 190	4 782	5 163	4 633	4 573
	\$ 000	41,258	52,113	65,553	79,606	98,296	102,765	114,062
<b>Petroleum and coal products</b>								
Fuel	\$ 000	174,274	214,425	247,507	301,461	379,142	374,248	447,123
Electricity purchased	million kWh	21,758	30,474	42,184	61,891	74,968	88,311	137,463
Total cost of fuel and electricity	\$ 000	2 904	3 010	3 205	3 505	3 555	3 705	3 669
	\$ 000	28,028	34,988	46,050	55,303	63,395	72,186	80,517
<b>Total mineral manufacturing industries</b>								
Fuel	\$ 000	49,786	65,462	88,233	117,194	138,363	160 498	217,980
Electricity purchased	million kWh	342,620	417,714	503,308	620,430	713,589	781,218	1,008,699
Total cost of fuel and electricity	\$ 000	23 171	23 644	22 747	25 544	27 169	28 873	28 671
	\$ 000	199,036	238,112	295,177	361,222	422,008	491,834	551,765
	\$ 000	541,656	655,826	798,486	981,652	1,135,597	1,273,063	1,560,464

<sup>1</sup> Industry coverage is the same as in Tables 30, 32, 34 and 36.

TABLE 39. CANADA, EMPLOYMENT, SALARIES AND WAGES IN THE MINING INDUSTRY<sup>1</sup>, 1975-81

	Unit	1975	1976	1977	1978	1979	1980	1981
<b>Metals</b>								
Production and related workers	Number	50,319	49,834	49,414	39,977	41,541	47,592	49,586
Salaries and wages	\$000	685,562	759,499	849,345	757,258	879,383	1 091,848	1,265,547
Annual average salary and wage	\$	13,624	15,241	17,188	18,942	21,169	22,942	25,522
Administrative and office workers	Number							
Salaries and wages	\$000	18,842	18,435	17,831	16,470	17,419	18,526	19,126
Annual average salary and wage	\$	320,873	352,847	377,714	358,680	428,639	504,316	585,120
		17,030	19,140	21,183		24,608	27,222	30,593
Total metals								
Employees	Number	69,161	68,269	67,245	56,447	58,960	66,118	68,712
Salaries and wages	\$000	1,006,435	1,112,346	1,227,059	1 115,938	1,308,022	1,596,165	1,850,667
Annual average salary and wage	\$	14,552	16,294	18,248	19,770	22,185	24,141	26,933
<b>Nonmetals</b>								
Production and related workers	Number	15,397	16,447	16,812	16,133	16,633	16,645	15,666
Salaries and wages	\$000	188,956	237,982	266,294	274,037	321,303	343,004	352,302
Annual average salary and wage	\$	12,272	14,470	15,840	16,986	19,317	20,607	22,488
Administrative and office workers	Number	4,688	4,887	4,986	4,749	4,829	4,795	4,908
Salaries and wages	\$000	69,208	82,861	89,757	95,659	106,776	116,932	128,852
Annual average salary and wage	\$	14,763	16,955	18,002	20,143	22,114	24,386	26,253
Total nonmetals								
Employees	Number	20,085	21,334	21,798	20,882	21,462	21,440	20,574
Salaries and wages	\$000	258,164	320,843	356,051	369,696	428,079	459,936	481,154
Annual average salary and wage	\$	12,854	15,039	16,334	17,704	19,946	21,452	23,387
<b>Fuels</b>								
Production and related workers	Number	11,375	12,708	13,679	14,196	14,406	15,829	15,884
Salaries and wages	\$000	155,491	187,704	226,869	243,713	293,087	344,537	435,911
Annual average salary and wage	\$	13,670	14,771	16,585	17,168	20,345	21,766	27,443
Administrative and office workers	Number							
Salaries and wages	\$000	15,094	15,383	16,342	18,423	20,417	23,035	24,081
Annual average salary and wage	\$	235,188	281,789	327,544	388,995	463,527	578,832	672,213
		15,582	18,318	20,043	21,115	22,703	25,128	27,915
Total fuels								
Employees	Number	26,469	28,091	30,021	32,619	34,823	38,864	39,965
Salaries and wages	\$000	390,679	469,493	554,413	632,708	756,614	923,369	1,108,124
Average annual salary and wage	\$	14,760	16,713	18,468	19,397	21,727	23,759	27,727
<b>Total mining</b>								
Production and related workers	Number	77,091	78,989	79,905	70,306	72,580	80,066	81,136
Salaries and wages	\$000	1,030,009	1,185,184	1 342,508	1,275,008	1,493,773	1,779,389	2,053,761
Average annual salary and wage	\$	13,361	15,004	16,801	18,135	20,581	22,224	25,313
Administrative and office workers	Number							
Salaries and wages	\$000	38,624	38,705	39,159	39,642	42,665	46,356	48,115
Annual average salary and wage	\$	625,269	717,498	795,015	843,335	998,942	1,200,081	1,386,184
		16,189	18,538	20,302	21,274	23,414	25,888	28,810
Total mining								
Employees	Number	115,715	117,694	119,064	109,948	115,245	126,422	129,251
Salaries and wages	\$000	1,655,278	1,902,682	2,137,523	2,118,343	2,492,715	2,979,470	3,439,945
Annual average salary and wage	\$	14,305	16,166	17,954	19,267	21,630	23,568	26,614

<sup>1</sup> Does not include cement and lime manufacturing and clay products (domestic clays) manufacturing. These industries are included in Table 38 under "Nonmetallic mineral products industries". See Table 29 for detail of industries.



TABLE 40. CANADA, EMPLOYMENT, SALARIES AND WAGES IN THE MINERAL MANUFACTURING INDUSTRIES, 1975-81

	Unit	1975	1976	1977	1978	1979	1980	1981
<b>Primary metal industries</b>								
Production and related workers	Number	90,169	88,939	91,683	93,798	95,942	97,530	92,337
Salaries and wages	\$000	1,119,159	1,241,893	1,399,390	1,544,412	1,725,904	1,980,423	2,120,019
Annual average salary and wage	\$	12,412	13,963	15,263	16,465	17,989	20,306	22,960
Administrative and office workers	Number	30,161	28,102	27,536	28,198	30,812	28,920	32,831
Salaries and wages	\$000	493,764	511,236	545,957	597,544	713,279	787,022	938,790
Annual average salary and wage	\$	16,371	18,192	19,827	21,191	23,149	27,214	28,595
Total primary metal industries								
Employees	Number	120,330	117,041	119,219	121,996	126,754	126,450	125,168
Salaries and wages	\$000	1,612,923	1,753,128	1,945,347	2,140,956	2,432,183	2,767,445	3,058,809
Annual average salary and wage	\$	13,404	14,979	16,317	17,549	19,188	21,886	24,438
<b>Nonmetallic mineral products industries</b>								
Production and related workers	Number	42,149	41,272	39,321	41,297	41,813	40,799	40,145
Salaries and wages	\$000	471,466	529,264	564,444	638,152	710,622	743,254	818,566
Annual average salary and wage	\$	11,186	12,824	14,355	15,452	16,995	18,217	20,390
Administrative and office workers	Number	13,783	13,749	13,187	14,439	14,935	15,287	15,124
Salaries and wages	\$000	197,884	218,164	229,855	264,166	297,211	333,815	369,899
Annual average salary and wage	\$	14,357	15,868	17,430	18,295	19,900	21,837	24,458
Total nonmetallic mineral products								
Employees	Number	55,932	55,021	52,508	55,736	56,748	56,086	55,269
Salaries and wages	\$000	669,350	747,428	794,299	902,318	1,007,833	1,077,069	1,188,455
Annual average salary and wage	\$	11,967	13,584	15,127	16,189	17,760	19,203	21,503
<b>Petroleum and coal products industries</b>								
Production and related workers	Number	7,877	7,099	7,696	8,822	8,174	8,277	8,432
Salaries and wages	\$000	122,268	127,594	146,566	183,218	185,290	203,686	249,199
Annual average salary and wage	\$	15,522	17,974	19,044	20,768	22,668	24,609	29,554
Administrative and office workers	Number	9,387	9,590	10,153	11,531	11,019	11,769	14,182
Salaries and wages	\$000	175,772	192,722	228,532	267,844	285,148	337,865	436,430
Annual average salary and wage	\$	18,725	20,096	22,509	23,228	25,887	28,708	30,773
Total petroleum and coal products								
Employees	Number	17,264	16,689	17,849	20,353	19,193	20,046	22,614
Salaries and wages	\$000	298,040	320,316	375,098	451,062	470,438	541,551	685,629
Annual average salary and wage	\$	17,264	19,193	21,015	22,162	24,511	27,015	30,319
<b>Total mineral manufacturing industries</b>								
Production and related workers	Number	140,195	137,310	138,700	143,917	145,929	146,606	140,914
Salaries and wages	\$000	1,712,892	1,898,751	2,110,400	2,365,782	2,621,816	2,927,363	3,187,784
Annual average salary and wage	\$	12,218	13,828	15,216	16,439	17,966	19,968	22,622
Administrative and office workers	Number	53,331	51,441	50,876	54,168	56,766	55,976	62,137
Salaries and wages	\$000	867,421	922,122	1,004,344	1,129,554	1,295,638	1,458,702	1,745,109
Annual average salary and wage	\$	16,269	17,926	19,741	20,853	22,824	26,059	28,085
Total mineral manufacturing industries								
Employees	Number	193,526	188,751	189,576	198,085	202,695	202,582	203,051
Salaries and wages	\$000	2,580,313	2,820,872	3,114,744	3,494,336	3,910,454	4,386,065	4,932,893
Annual average salary and wage	\$	13,333	14,945	16,430	17,641	19,292	21,651	24,294

Note: See footnote, Table 35. See Table 30 for detail of industries covered.

**TABLE 41. CANADA, NUMBER OF WAGE EARNERS EMPLOYED IN THE MINING INDUSTRY, (SURFACE, UNDERGROUND AND MILL), 1975-81**

	1975	1976	1977	1978	1979	1980	1981
<b>Metals</b>							
Surface	16,230	16,143	16,115	12,901	12,664	14,347	14,043
Underground	20,555	20,043	19,482	15,682	15,906	19,308	19,784
Mill	13,534	13,648	13,817	11,394	12,971	13,937	15,759
Total	50,319	49,834	49,414	39,977	41,541	47,592	49,586
<b>Nonmetals</b>							
Surface	7,180	7,264	7,166	6,660	6,877	6,510	6,015
Underground	1,870	2,180	2,245	2,275	2,370	2,550	2,606
Mill	6,347	7,003	7,401	7,198	7,386	7,585	7,045
Total	15,397	16,447	16,812	16,133	16,633	16,645	15,666
<b>Fuels</b>							
Surface	8,789	9,705	10,510	11,045	11,535	12,929	12,958
Underground	2,586	3,003	3,169	3,151	2,871	2,900	2,926
Total	11,375	12,708	13,679	14,196	14,406	15,829	15,884
<b>Total mining industry</b>							
Surface	32,200	33,112	33,791	30,606	31,076	33,786	33,016
Underground	25,010	25,226	24,896	21,108	21,147	24,758	25,316
Mill	19,881	20,651	21,218	18,592	20,357	21,522	22,804
Total	77,091	78,989	79,905	70,306	72,580	80,066	81,136

**TABLE 42. CANADA, MINE AND MILL WORKERS BY SEX, 1981**

	Mine Workers				Mill Workers		Total	
	Underground		Surface		Male	Female	Male	Female
	Male	Female	Male	Female				
<b>Metallic minerals</b>								
Gold-quartz	3,116	-	1,185	48	1,224	27	5,525	75
Silver-lead-zinc	2,285	1	1,487	59	1,614	60	5,386	120
Nickel-copper-gold-silver	11,524	10	6,712	152	5,927	279	24,163	441
Iron Ore	292	3	2,341	119	4,852	258	7,485	380
Uranium	2,341	9	1,399	47	861	107	4,601	163
Miscellaneous metal mines	203	-	469	25	502	48	1,174	73
Total	19,761	23	13,593	450	14,980	779	48,334	1,252
<b>Industrial minerals</b>								
Asbestos	408	-	1,683	6	3,193	105	5,284	111
Gypsum	116	-	429	-	49	-	594	-
Peat	-	-	670	20	488	10	1,158	30
Potash	1,656	20	80	1	1,583	38	3,319	59
Salt	356	-	153	-	414	23	923	23
Sand and gravel	-	-	1,161	12	41	1	1,202	13
Stone	6	-	1,586	9	291	2	1,883	11
Miscellaneous nonmetals	44	-	203	2	798	9	1,045	11
Total	2,586	20	5,965	50	6,857	188	15,408	258
<b>Mining Total</b>	22,347	43	19,558	500	21,837	967	63,742	1,510

TABLE 43. CANADA, LABOUR COSTS IN RELATION TO TONNES MINED, METAL MINES, 1979-81

Type of metal mine	Number of wage earners	Total wages (\$000)	Average annual wage (\$)	Tonnage of ore mined (kilotonnes)	Average annual tonnes mined per wage earner	Wage cost per tonne mined (\$)
<b>1979</b>						
Gold-quartz	4,155	75,979	18,286	5 478	1 318	13.87
Nickel-copper-gold-silver	18,135	369,494	20,375	109 437	6 035	3.38
Silver-lead-zinc	5,087	103,783	20,402	15 078	2 964	6.88
Iron ore	8,911	221,216	24,825	130 799	14 678	1.69
Uranium	4,320	87,902	20,348	6 141	1 422	14.31
Miscellaneous metals	933	21,009	22,518	7 822	8 384	2.50
Total	41,541	879,383	21,169	274 755	6 614	3.20
<b>1980</b>						
Gold-quartz	4,781	103,293	21,605	6 346	1 327	16.28
Nickel-copper-gold-silver	23,447	510,380	21,767	121 399	5 178	4.20
Silver-lead-zinc	5,275	122,248	23,175	16 219	3 075	7.54
Iron ore	8,264	216,280	26,171	123 107	14 897	1.76
Uranium	4,463	107,209	24,022	7 152	1 603	14.99
Miscellaneous metals	1,362	32,438	23,816	15 871	11 653	2.04
Total	47,592	1,091,848	22,942	290 095	6 095	3.76
<b>1981</b>						
Gold-quartz	5,600	136,782	24,425	6 810	1 216	20.09
Nickel-copper-gold-silver	24,604	589,157	23,946	137 710	5 597	4.28
Silver-lead-zinc	5,506	148,251	26,925	15 964	2 899	9.29
Iron ore	7,865	226,619	28,814	118 579	15 077	1.91
Uranium	4,764	133,822	28,090	7 454	1 565	17.95
Miscellaneous metals	1,247	30,916	24,792	15 014	12 040	2.06
Total	49,586	1,265,547	25,522	301 530	6 081	4.20

TABLE 44. CANADA, PERSON-HOURS PAID, PRODUCTION AND RELATED WORKERS, TONNES OF ORE MINED AND ROCK QUARRIED, METAL MINES AND NONMETALLIC MINERAL OPERATIONS, 1975-81

	Unit	1975	1976	1977	1978	1979	1980	1981
<b>Metal mines<sup>1</sup></b>								
Ore mined	million tonnes	264.2	296.5	299.5	248.1	274.8	290.1	301.5
Person-hours paid <sup>2</sup>	million	102.4	100.6	101.2	84.9	85.1	97.5	100.6
Person-hours paid per tonne mine	number	0.39	0.34	0.34	0.34	0.31	0.34	0.33
Tonnes mined per person-hour paid	tonnes	2.58	2.95	2.96	2.92	3.23	2.98	3.00
<b>Nonmetallic mineral operations<sup>3</sup></b>								
Ore mined and rock quarried	million tonnes	155.1	162.0	200.2	200.4	192.1	185.0	164.8
Person-hours paid <sup>2</sup>	million	23.4	26.9	27.7	26.3	27.8	26.5	23.5
Person-hours paid per tonne mine	number	0.15	0.17	0.14	0.13	0.14	0.14	0.14
Tonnes mined per person-hour paid	tonnes	6.63	6.02	7.23	7.62	6.91	6.98	7.01

1 Excludes placer mining. 2 Man-hours paid for production and related workers only. 3 Includes asbestos, potash, gypsum and stone.

TABLE 45. CANADA, AVERAGE WEEKLY WAGES AND HOURS WORKED, HOURLY-RATED EMPLOYEES IN MINING, MANUFACTURING AND CONSTRUCTION INDUSTRIES, 1976-82

	1976	1977	1978	1979 <sup>r</sup>	1980 <sup>r</sup>	1981	1982 <sup>p</sup>
<b>Mining</b>							
Average hours per week	40.3	40.6	40.5	41.1	40.8	40.4	39.6
Average weekly wage (\$)	298.44	329.45	354.51	396.58	440.61	494.62	551.68
<b>Metals</b>							
Average hours per week	39.6	39.8	39.4	40.4	40.1	40.2	39.0
Average weekly wage (\$)	296.21	325.75	344.94	387.14	425.08	485.03	535.92
<b>Mineral fuels</b>							
Average hours per week	40.6	41.3	41.0	40.8	41.2	41.3	42.1
Average weekly wage (\$)	309.24	333.51	367.34	410.38	476.30	553.71	631.91
<b>Nonmetals</b>							
Average hours per week	40.5	40.3	40.5	40.3	39.5	38.7	37.2
Average weekly wage (\$)	273.56	301.92	326.23	366.03	402.98	445.02	479.44
<b>Manufacturing</b>							
Average hours per week	38.7	38.7	38.8	38.8	38.5	38.5	37.7
Average weekly wage (\$)	222.79	246.63	265.06	287.82	314.80	352.08	384.79
<b>Construction</b>							
Average hours per week	38.9	38.7	39.0	39.4	39.0	38.9	38.1
Average weekly wage (\$)	330.95	378.50	400.58	433.51	470.45	531.54	564.33

Note: Wages reflect seasonally adjusted figures.

P Preliminary; <sup>r</sup> Revised.



TABLE 46. CANADA, AVERAGE WEEKLY WAGES OF HOURLY-RATED EMPLOYEES IN THE MINING INDUSTRY, IN CURRENT AND 1971 DOLLARS, 1976-82

	1976	1977	1978	1979	1980	1981	1982P
<b>Current dollars</b>							
All mining	298.44	329.45	354.51	396.58	440.61	494.62	551.68
Metals	296.21	325.75	344.94	387.14	425.08	485.03	535.92
Mineral fuels	309.24	333.51	367.34	414.96	476.30	553.11	631.91
Coal	274.00	303.53	323.49	362.20	430.16	485.03	562.12
Nonmetals except fuel	273.56	301.92	326.23	330.47	402.98	445.02	479.44
<b>1971 dollars</b>							
All mining	200.43	204.88	202.35	207.42	209.22	208.79	210.16
Metals	198.93	202.58	196.88	202.48	226.16	244.74	204.16
Mineral fuels	207.68	207.41	209.67	217.03	220.82	233.48	240.73
Coal	184.02	188.76	184.64	189.44	204.25	204.74	214.14
Industrial minerals	183.72	187.76	186.20	172.84	191.35	187.85	182.64

Note: Wages reflect seasonally adjusted figures.  
P Preliminary.

TABLE 47. CANADA, INDUSTRIAL FATALITIES PER THOUSAND WORKERS, BY INDUSTRY GROUPS 1980-82<sup>1</sup>

	Fatalities (number)			Number of Workers (000)			Rate per 1,000 workers <sup>2</sup>		
	1980	1981	1982P	1980	1981	1982P	1980	1981	1982P
Agriculture	7	17	19	186.0	151.0	149.0	0.05	0.11	0.13
Forestry	76	60	65	68.2	65.6	54.3	1.11	0.91	1.20
Fishing	22	20	18	15.0	13.8	11.4	1.47	1.45	1.58
Mining	168	126	130	170.2	178.0	155.5	0.99	0.71	0.84
Manufacturing	140	146	147	1,851.2	1,883.9	1,709.2	0.08	0.08	0.09
Construction	182	174	129	455.4	475.1	409.7	0.40	0.37	0.31
Transportation	220	198	160	842.8	849.6	826.4	0.26	0.23	0.19
Trade	73	60	61	1,555.6	1,629.0	1,575.9	0.05	0.04	0.04
Finance	8	9	5	517.1	533.1	534.7	0.02	0.02	0.01
Service	86	83	69	2,766.5	2,932.4	2,965.9	0.03	0.03	0.02
Public administration	44	62	49	635.6	628.3	646.6	0.07	0.10	0.08
Unknown	15	5	7	..	..	..	..	..	..
Total	1,041	960	859	9,033.6	9,339.8	9,038.6	0.12	0.10	0.10

Note: See footnotes, Table 48.

<sup>1</sup> Includes fatalities resulting from occupational chest diseases such as silicosis, lung cancer, etc. <sup>2</sup> The rates may be understated because only 80 per cent of workers in the Statistics Canada employment estimates are covered by workers' compensation.

P Preliminary; .. Not available.

TABLE 48. CANADA, INDUSTRIAL FATALITIES PER THOUSAND WORKERS, BY INDUSTRY GROUPS, 1976-82

	1976	1977	1978	1979	1980	1981	1982 <sup>p</sup>
Agriculture	0.13	0.11	0.05	0.10	0.05	0.11	0.13
Forestry	1.14	0.92	1.28	1.51	1.11	0.91	1.20
Fishing <sup>1</sup>	3.60	2.37	1.44	1.25	1.47	1.45	1.58
Mining <sup>2</sup>	1.18	0.92	0.82	0.93	0.99	0.71	0.84
Manufacturing	0.11	0.10	0.10	0.09	0.08	0.08	0.09
Construction	0.42	0.37	0.38	0.38	0.40	0.37	0.31
Transportation <sup>3</sup>	0.28	0.22	0.25	0.26	0.26	0.23	0.19
Trade	0.04	0.05	0.04	0.04	0.05	0.04	0.04
Finance <sup>4</sup>	0.02	0.02	0.01	0.01	0.02	0.02	0.01
Services <sup>5</sup>	0.03	0.03	0.02	0.03	0.03	0.03	0.02
Public administration	0.09	0.08	0.12	0.10	0.07	0.10	0.08
Total	0.13	0.11	0.12	0.12	0.12	0.10	0.10

1 Includes trapping, hunting. 2 Includes quarrying and oil wells. 3 Includes storage, communication, electric power and water utilities and highway maintenance. 4 Includes insurance and real estate. 5 Includes community, business and personal service.  
p Preliminary.

TABLE 49. CANADA, INDUSTRIAL FATALITIES BY OCCUPATIONAL INJURIES AND ILLNESSES<sup>1</sup>, 1980-82

	Occupational Injuries		Occupational Illnesses		Total	
	1980	1981	1980	1981	1980	1981
Agriculture	7	12	13	0	7	12
Forestry	66	49	54	1	67	49
Fishing	19	20	17	0	19	20
Mining	93	70	88	67	160	122
Manufacturing	88	83	90	30	118	123
Construction	146	149	100	40	156	155
Transportation	197	176	143	6	201	177
Trade	56	47	52	4	56	48
Finance	5	6	4	1	5	6
Service	68	64	49	0	69	67
Public administration	38	48	39	1	38	50
Unknown	12	1	0	2	14	3
Total	795	725	649	115	910	830
					91	740

1 Excludes the Province of Québec for which data is unavailable.

p Preliminary.

TABLE 50. CANADA, NUMBER OF STRIKES AND LOCKOUTS BY INDUSTRIES, 1980-82

	1980			1981			1982		
	Strikes and lock-outs	Workers involved	Duration in person-days	Strikes and lock-outs	Workers involved	Duration in person-days	Strikes and lock-outs	Workers involved	Duration in person-days
Agriculture	1	30	900	3	65	7,750	3	64	7,320
Forestry	8	3,588	337,220	14	3,292	349,400	3	215	7,840
Fishing and trapping	2	16,082	395,870	1	400	530	0	0	0
Mines	33	21,400	418,270	42	24,359	580,720	8	12,686	257,140
Manufacturing	404	86,247	3,137,370	423	152,207	4 638,290	292	63,959	1,690,560
Construction	69	57,940	1,107,060	44	5,780	43,280	63	94,228	2,199,610
Transportation and utilities	106	27,329	729,070	101	58,135	1,513,970	67	24,005	565,740
Trade	109	7,855	218,550	90	4,886	149,170	72	4,465	171,180
Finance, insurance and real estate	20	1,238	47,710	18	3,480	294,760	15	746	49,620
Service	218	136,193	1,883,280	221	57,248	577,400	110	27,846	415,380
Public administration	58	83,123	700,090	90	17,696	717,420	43	36,088	251,030
Various industries	-	-	-	1	6,000	6,000	1	180,000	180,000
All industries	1,028	441,025	8,975,390	1,048	338,548	8,878,490	677	444,302	5,795,420

- Nil.

TABLE 51. CANADA, NUMBER OF STRIKES AND LOCKOUTS BY MINING AND MINERAL MANUFACTURING, 1980-82

	1980			1981			1982		
	Strikes and lock-outs	Workers involved	Duration in person-days	Strikes and lock-outs	Workers involved	Duration in person-days	Strikes and lock-outs	Workers involved	Duration in person-days
<b>Mines</b>	33	21 400	418 270	42	24 359	580 720	8	12 686	257 140
Metal	18	10 749	189 570	25	11 457	248 930	2	10 211	248 300
Mineral fuels	5	7 486	99 450	9	11 159	306 690	2	2 400	4 670
Nonmetals	7	3 039	121 750	5	1 674	16 130	-	-	-
Quarries	3	126	7 500	3	69	8 970	4	75	4 170
<b>Mineral manufacturing</b>	52	10 086	530 620	62	30 770	1 553 000	29	6 839	291 600
Primary metals	18	5 212	321 530	29	27 169	1 429 150	11	4 259	199 900
Nonmetallic mineral products	31	3 208	123 310	33	3 601	123 850	17	2 576	91 600
Petroleum and coal products	3	1 666	85 780	0	0	0	1	4	100

TABLE 52. CANADA, SOURCE OF ORES HOISTED OR REMOVED FROM SELECTED TYPES OF MINES, 1979-81

Mines	1979			1980			1981		
	Under-ground	Open Pit	Total	Under-ground	Open Pit	Total	Under-ground	Open Pit	Total
	(kilotonnes)								
Asbestos	2 151	29 371	31 522	1 997	26 106	28 103	1 789	23 874	25 664
Gold-quartz	5 144	334	5 478	5 193	1 153	6 346	5 835	975	6 810
Gypsum	754	7 556	8 310	1 062	6 549	7 611	685	5 535	6 220
Iron Ore	3 641	127 158	130 799	3 222	119 886	123 107	3 269	115 309	118 579
Nickel-copper-gold-silver	23 570	85 867	109 437	30 840	90 559	121 399	31 193	106 516	137 710
Silver-lead-zinc	8 692	6 386	15 078	9 822	6 397	16 219	9 943	6 021	15 964
Uranium	5 408	733	6 141	5 981	1 171	7 152	6 664	790	7 454
Miscellaneous metals	1 212	6 610	7 822	1 491	14 381	15 871	1 518	13 496	15 014
Total	50 572	264 015	314 587	59 608	266 201	325 809	60 896	272 516	333 415
Percentage	16.0	84.0	100.0	18.3	81.7	100.0	18.3	81.7	100.0



TABLE 53. CANADA, SOURCE OF MATERIAL HOISTED OR REMOVED FROM METAL MINES, 1981

	Underground		Open Pit	
	Ore	Waste	Ore (kilotonnes)	Overburden
Gold-quartz	5 835	683	975	5 340
Nickel-copper-gold-silver	31 193	3 449	106 516	16 781
Silver-lead-zinc	9 943	621	6 021	6 607
Iron	3 269	135	115 309	19 562
Uranium	6 664	472	790	-
Miscellaneous metals	1 518	89	13 496	20
Total	58 423	5 448	243 108	48 309

- Nil.

TABLE 54. CANADA, ORE MINED AND ROCK QUARRIED IN THE MINING INDUSTRY, 1975-81

	1975	1976	1977	1978	1979	1980	1981
	(kilotonnes)						
<b>Metals</b>							
Gold-quartz	5 901	5 921	5 768	5 914	5 478	6 346	6 810
Silver-lead-zinc	16 169	14 309	16 730	15 859	15 078	16 219	15 964
Nickel-copper-gold-silver	120 921	125 062	129 361	109 613	109 437	121 399	137 709
Iron	101 482	133 073	127 057	96 323	130 799	123 107	118 579
Uranium	3 449	3 663	5 014	6 126	6 141	7 152	7 454
Miscellaneous metals	16 296	14 499	15 599	14 221	7 822	15 871	15 014
<b>Total</b>	264 218	296 527	299 528	248 056	274 755	290 095	301 530
<b>Nonmetals</b>							
Asbestos	22 186	31 055	31 912	28 788	31 522	28 103	25 664
Potash	21 713	20 277	24 813	24 856	25 511	26 988	30 344
Gypsum	5 578	5 978	7 216	8 393	8 310	7 611	6 220
Rock salt	3 627	5 080	4 974	5 050	5 639	5 321	4 927
<b>Total</b>	53 104	62 390	68 915	67 087	70 982	68 023	67 155
<b>Structural materials</b>							
Stone, all kinds quarried <sup>1</sup>	88 921	87 876	120 163	122 144	109 719	103 366	86 860
Stone used to make cement	13 654	13 350	12 614	13 051	13 982	14 138	14 047
Stone used to make lime	2 980	3 442	3 534	3 178	3 028	4 751	1 626
<b>Total</b>	105 555	104 668	136 310	138 373	126 729	122 255	102 533
<b>Total ore mined and rock quarried</b>	422 877	463 585	504 753	453 516	472 466	480 373	471 218

<sup>1</sup> Excludes stone used to manufacture cement and lime.

TABLE 55. CANADA, EXPLORATION AND CAPITAL EXPENDITURES IN THE MINING INDUSTRY<sup>1</sup>, BY PROVINCES AND TERRITORIES, 1979-81

	Capital				Repair				Land and mining rights	Total all expenditures			
	Construction		Machinery and equipment	Total capital (\$ million)	Construction	Machinery and equipment	Total repair						
	On-property exploration	On-property development						Structures			Total		
Atlantic provinces	1979	2.2	47.0	27.7	76.9	51.4	128.3	10.4	173.2	183.6	311.9	21.1	333.6
	1980	2.7	60.3	22.4	85.4	60.0	145.4	14.8	168.2	183.0	328.4	35.5	364.1
	1981P	6.3	63.5	80.7	150.4	115.4	265.8	11.0	185.2	196.2	462.1	50.8	514.4
Quebec	1979	7.5	109.6	40.0	157.1	72.9	230.0	25.2	200.1	225.3	455.3	39.5	496.1
	1980	15.6	151.6	81.3	248.5	98.8	347.3	45.4	281.8	327.2	674.5	58.5	742.2
	1981P	28.0	156.1	106.5	290.6	135.9	436.5	49.3	261.7	311.0	737.5	81.7	821.3
Ontario	1979	6.4	150.7	68.2	225.3	127.2	352.5	23.2	221.6	244.8	597.3	18.4	616.6
	1980	12.1	179.3	124.5	315.9	120.2	436.1	66.2	235.9	302.1	738.0	58.5	799.9
	1981P	17.9	206.2	148.8	372.9	177.2	550.1	70.6	281.7	352.3	902.4	79.5	988.3
Manitoba	1979	(2)	(2)	(2)	46.8	15.9	62.7	(2)	34.2	(2)	96.9	11.8	108.7
	1980	(2)	(2)	(2)	39.2	11.3	50.5	6.6	44.2	50.8	101.3	21.2	122.8
	1981P	8.3	27.3	13.5	49.1	34.0	83.1	5.1	44.2	49.3	132.4	20.6	153.3
Saskatchewan	1979	4.9	29.3	40.0	74.2	66.9	141.1	5.6	76.8	82.4	223.5	52.6	284.2
	1980	7.0	40.4	62.1	109.5	87.1	196.6	9.1	90.3	99.4	296.0	56.4	357.1
	1981P	20.2	39.0	101.6	160.8	175.7	336.5	11.5	120.5	132.0	468.5	45.4	522.0
Alberta	1979	(2)	(2)	(2)	19.3	40.7	60.0	(2)	38.7	(2)	98.7	8.5	108.4
	1980	(2)	(2)	(2)	34.5	41.8	76.3	1.2	57.5	58.7	135.0	14.2	(2)
	1981P	2.6	20.1	52.6	75.3	52.2	127.5	0.9	59.0	59.9	187.4	23.9	(2)
British Columbia	1979	17.8	95.1	115.6	228.5	85.8	314.3	10.7	178.0	188.7	503.0	48.3	552.8
	1980	31.1	154.1	302.6	487.8	233.3	721.1	21.8	232.5	254.3	975.4	91.0	1,070.1
	1981P	34.9	139.7	490.3	664.9	197.2	862.1	24.1	338.9	363.0	1,225.1	111.7	1,538.3
Yukon and Northwest Territories	1979	5.6	11.3	10.2	27.1	23.4	50.5	5.7	46.0	51.7	102.2	48.7	169.5
	1980	8.6	26.9	99.2	134.7	82.3	217.0	4.7	50.4	55.1	272.1	68.3	(2)
	1981P	16.3	43.4	155.3	215.0	106.5	321.5	5.4	57.4	62.8	384.3	78.2	(2)
Canada	1979	49.2	476.3	329.7	855.2	484.2	1,339.4	84.8	964.6	1,049.4	2,388.8	248.9	2,669.9
	1980	85.4	646.8	723.3	1,455.5	734.8	2,189.3	169.8	1,160.8	1,330.6	3,520.9	403.6	3,968.1
	1981P	134.5	695.3	1,149.3	1,979.1	994.1	2,973.2	177.9	1,348.6	1,526.5	4,499.7	491.8	5,021.3

<sup>1</sup> Excludes the crude oil and natural gas industries and the operating and refining industries; <sup>2</sup> Confidential, included in total.  
P Preliminary; - Nil.

TABLE 56. CANADA, EXPLORATION AND CAPITAL EXPENDITURES<sup>1</sup> IN THE MINING INDUSTRY, BY TYPE OF MINING, 1979-1981

	Construction				Repair				Total, or general exploration	Land and mining rights	Total, and all expenditures
	On-property exploration	On-property development	Structures	Machinery and equipment	Construction	Machinery and equipment	Total repair	Total capital repair			
	(\$ million)										
<b>Metal Mining</b>											
Gold											
1979	4.1	29.4	6.7	40.2	16.8	57.0	3.2	23.4	26.6	83.6	89.2
1980	22.6	63.4	36.7	122.7	38.2	160.9	6.8	27.9	34.7	195.6	(2)
1981P	21.7	111.8	179.7	313.2	96.3	409.5	13.9	44.7	58.6	468.1	510.9
Copper-gold-silver											
1979	10.2	78.4	76.5	165.1	84.5	249.6	17.1	165.0	182.1	431.7	(2)
1980	24.1	93.3	187.6	305.0	185.9	490.9	24.2	211.0	235.2	726.1	(2)
1981P	28.2	91.2	157.1	276.5	161.6	438.1	29.7	292.2	321.9	760.0	774.7
Silver-lead-zinc											
1979	8.1	20.3	25.8	54.2	33.4	87.6	5.2	43.8	49.0	136.6	161.3
1980	9.4	35.4	97.1	141.9	86.1	228.0	7.0	61.4	68.4	296.4	(2)
1981P	21.5	55.2	95.4	172.1	104.7	276.8	6.8	75.4	82.2	359.0	375.0
Iron											
1979	(2)	81.4	15.4	96.8	40.3	137.1	27.5	268.4	295.9	433.0	(2)
1980	(2)	(2)	26.3	123.9	44.1	167.0	39.2	298.0	337.2	505.2	(2)
1981P	(2)	(2)	19.9	127.9	60.4	187.4	35.6	302.8	338.4	526.7	(2)
Other metal mining											
1979	11.5	140.5	96.1	248.1	104.7	352.8	17.2	131.1	148.3	501.1	(2)
1980	14.7	178.8	214.3	407.8	109.3	517.1	60.1	169.1	229.2	746.3	(2)
1981P	37.3	198.6	204.0	439.9	149.1	589.0	65.8	184.8	250.6	839.6	(2)
Total metal mining											
1979	(2)	383.9	220.5	604.4	279.7	884.1	70.2	631.7	701.9	1,586.0	1,635.5
1980	(2)	(2)	562.0	1,101.3	463.6	1,564.9	137.3	767.4	894.7	2,469.6	2,528.4
1981P	(2)	(2)	656.1	1,329.6	572.1	1,901.7	151.8	899.9	1,051.7	2,953.4	3,075.3
<b>Nonmetal mining</b>											
Asbestos											
1979	0.5	49.7	19.0	69.2	29.7	98.9	5.6	93.8	99.4	198.3	(2)
1980	0.7	56.4	8.0	65.1	23.1	88.2	7.4	106.0	113.4	201.6	(2)
1981P	(2)	(2)	5.5	53.7	15.3	69.0	4.0	79.5	83.5	152.5	(2)
Other non-metal mining											
1979	12.4	78.0	89.2	179.6	172.9	352.5	9.0	238.7	247.7	600.2	(2)
1980	9.6	120.8	150.9	281.3	244.5	525.8	25.1	287.1	312.2	838.0	(2)
1981P	21.3	85.4	487.4	594.1	402.4	996.5	22.0	368.3	388.3	1,386.8	(2)
Total non-metal mining											
1979	12.9	127.7	108.2	248.8	202.6	451.4	14.6	232.5	247.1	798.5	819.1
1980	10.3	177.2	158.9	346.4	267.6	614.0	32.5	393.1	425.6	1,039.6	1,067.4
1981P	(2)	(2)	492.9	647.8	417.7	1,065.5	26.0	447.8	473.8	1,539.3	1,590.4
Metal and nonmetal exploration											
1979	(2)	1.0	1.0	2.0	1.9	3.9	-	0.4	0.4	4.3	208.7
1980	(2)	(2)	2.4	7.8	3.6	11.4	-	0.3	0.3	11.7	330.8
1981P	(2)	(2)	0.3	1.7	4.3	6.0	0.1	0.9	1.0	7.0	376.1
Total mining											
1979	49.2	476.3	329.7	855.2	484.2	1,339.4	84.8	964.6	1,049.4	2,388.8	2,469.9
1980	85.4	646.8	723.3	1,455.5	734.8	2,185.3	169.8	1,160.8	1,330.6	3,520.9	3,968.1
1981P	134.5	695.3	1,169.3	1,979.1	994.1	2,973.2	177.9	1,348.6	1,526.5	4,499.7	5,021.3

<sup>1</sup> Excludes expenditures in the petroleum and natural gas industries. (2) Confidential, included in total.  
P Preliminary; - Nil.



TABLE 57. CANADA, DIAMOND DRILLING IN THE MINING INDUSTRY, BY MINING COMPANIES WITH OWN EQUIPMENT AND BY DRILLING CONTRACTORS, 1979-1981

	1979			1980			1981		
	Exploration	Other	Total	Exploration	Other	Total	Exploration	Other	Total
(met res)									
<b>Metal mining</b>									
Gold-quartz									
Own equipment Contractors	13 455	-	13 455	27 775	1 000	28 775	45 162	1 524	46 686
Total	170 711	14 789	185 500	154 812	4 048	158 860	234 432	25 079	259 511
	184 166	14 789	198 955	182 587	5 048	187 635	279 594	26 603	306 197
Nickel-copper-gold-silver									
Own equipment Contractors	251 019	-	251 019	239 469	-	239 469	318 530	223	318 753
Total	175 830	10 713	186 543	286 536	40 605	327 141	355 586	1 373	356 959
	426 849	10 713	437 562	526 005	40 605	566 610	674 116	1 596	674 712
Silver-lead-zinc and silver-cobalt									
Own equipment Contractors	18 609	4 090	22 699	42 161	19 545	61 706	68 716	199 151	267 867
Total	106 569	1 764	108 333	198 171	-	198 171	207 126	3 761	210 887
	125 178	5 854	131 032	240 332	19 545	259 877	275 842	202 912	478 754
Iron mines									
Own equipment Contractors	-	-	-	38 424	-	38 424	-	-	-
Total	28 266	-	28 266	30 007	27 474	57 481	15 817	-	15 817
	28 266	-	28 266	68 431	27 474	95 905	15 817	-	15 817
Uranium									
Own equipment Contractors	23 509	-	23 509	-	-	-	28 279	-	28 279
Total	45 255	3 269	48 524	10 884	-	10 884	59 232	21 668	80 900
	68 764	3 269	72 033	10 884	-	10 884	87 511	21 668	109 179
Miscellaneous metal mining									
Own equipment Contractors	4 629	-	4 629	-	-	-	-	-	-
Total	45 090	-	45 090	67 156	-	67 156	45 373	-	45 373
	49 719	-	49 719	67 156	-	67 156	45 373	-	45 373
Total metal mining									
Own equipment Contractors	311 221	4 090	315 311	347 829	20 545	368 374	460 687	200 898	661 585
Total	571 721	30 535	602 256	747 566	72 127	819 693	917 566	51 881	969 447
	882 942	34 625	917 567	1 095 395	92 672	1 188 067	1 378 253	252 779	1 631 032
<b>Nonmetal mining</b>									
Asbestos									
Own equipment Contractors	-	-	-	-	-	-	-	-	-
Total	20 238	-	20 238	28 790	-	28 790	10 814	-	10 814
	20 238	-	20 238	28 790	-	28 790	10 814	-	10 814
Gypsum									
Own equipment Contractors	1 779	-	1 779	1 314	-	1 314	-	-	-
Total	4 177	-	4 177	4 463	-	4 463	1 841	-	1 841
	5 956	-	5 956	5 777	-	5 777	1 841	-	1 841

Salt	Own equipment Contractors	2 632	-	-	-	-	-	-	-	1 552	-	-	1 552
Miscellaneous nonmetal mining	Total	2 632	-	-	-	-	-	-	-	1 552	-	-	1 552
	Own equipment Contractors	1 958	-	-	-	-	-	-	-	404	-	-	404
		671	-	-	-	-	-	-	-	1 128	-	-	1 128
		2 629	-	-	-	-	-	-	-	1 552	-	-	1 552
Total nonmetal mining	Own equipment Contractors	6 369	-	-	-	-	-	-	-	1 956	-	-	1 956
		25 086	-	-	-	-	-	-	-	13 783	-	-	13 783
		31 455	-	-	-	-	-	-	-	15 739	-	-	15 739
	Total	31 455	-	-	-	-	-	-	-	15 739	-	-	15 739
Total mining industry	Own equipment Contractors	317 590	4 090	321 680	351 987	20 545	372 532	462 648	200 898	663 541	-	-	663 541
		596 807	30 535	627 342	781 617	72 127	853 744	951 349	51 881	983 230	-	-	983 230
		914 397	34 625	949 022	1 133 604	92 672	1 226 276	1 393 992	252 779	1 641 771	-	-	1 641 771
	Total	914 397	34 625	949 022	1 133 604	92 672	1 226 276	1 393 992	252 779	1 641 771	-	-	1 641 771

- Nil.

TABLE 58. CANADA, ORE MINED AND ROCK QUARRIED IN THE MINING INDUSTRY, 1952-81

	Metals	Nonmetal <sup>1</sup> (million tonnes)	Total
1952	47.4	40.0	87.4
1953	49.3	42.8	92.1
1954	53.5	55.7	109.2
1955	62.7	57.6	120.3
1956	70.2	66.2	136.4
1957	76.4	74.5	150.9
1958	71.4	71.2	142.6
1959	89.9	82.2	172.1
1960	92.1	88.7	180.8
1961	90.1	96.7	186.8
1962	103.6	103.8	207.4
1963	112.7	120.4	233.1
1964	128.0	134.1	262.1
1965	151.0	146.5	297.5
1966	147.6	171.8	319.4
1967	169.1	177.5	346.6
1968	186.9	172.7	359.6
1969	172.0	178.8	350.8
1970	213.0	179.1	392.1
1971	211.5	185.8	397.3
1972	206.0	189.7	395.7
1973	274.8	162.6	437.3
1974	278.7	178.8	457.6
1975	264.2	158.7	422.9
1976	296.5	167.1	463.6
1977	299.5	205.2	504.8
1978	248.1	205.5	453.5
1979	274.8	197.7	472.5
1980	290.1	190.3	480.4
1981	301.5	169.7	471.2

<sup>1</sup> Includes nonmetallic mineral mining and all stone quarried, including stone used to make cement and lime. From 1973 onwards, coverage is the same as in Table 54.

TABLE 59. CANADA, TOTAL DIAMOND DRILLING, METAL DEPOSITS, 1952-81

	Gold-quartz deposits	Copper-gold- silver and nickel-copper deposits	Silver-lead- zinc and silver- cobalt deposits (metres)	Other metal bearing deposits <sup>1</sup>	Total metal deposits
1952	808 245	1 187 024	456 146	56 032	2 507 447
1953	675 598	976 514	367 864	65 279	2 085 255
1954	737 266	826 288	271 873	199 097	2 034 524
1955	717 674	875 942	341 857	537 612	2 473 085
1956	682 600	1 490 298	399 679	383 431	2 956 008
1957	706 273	1 098 490	323 704	287 364	2 415 831
1958	546 861	923 026	297 792	286 970	2 054 649
1959	558 160	1 110 664	282 088	383 471	2 334 383
1960	628 016	1 267 792	226 027	315 067	2 436 902
1961	503 741	1 128 091	255 101	221 079	2 199 452
1962	902 288	1 025 048	350 180	358 679	2 636 195
1963	529 958	977 257	288 204	148 703	1 944 122
1964	458 933	709 588	401 099	104 738	1 674 358
1965	440 020	779 536	331 294	275 917	1 826 727
1966	442 447	729 148	292 223	164 253	1 628 071
1967	391 347	947 955	230 182	120 350	1 689 834
1968	375 263	935 716	198 038	56 780	1 565 797
1969	274 410	923 452	197 670	109 592	1 505 124
1970	214 717	1 132 915	375 019	99 373	1 822 024
1971	193 291	1 089 103	308 798	83 851	1 675 043
1972	229 771	967 640	240 195	50 225	1 487 831
1973	243 708	713 134	185 946	57 730	1 200 518
1974	250 248	798 564	197 322	83 484	1 329 618
1975	216 158	532 991	184 203	97 971	1 031 323
1976	156 030	507 620	166 366	97 735	927 751
1977	175 643	515 780	213 279	124 329	1 029 031
1978	209 335	227 065	490 489	135 197	1 181 743
1979	198 955	437 562	131 032	150 018	917 567
1980	187 635	566 610	259 877	173 945	1 188 067
1981	306 197	675 712	478 754	170 369	1 631 032

<sup>1</sup> Includes iron, titanium, uranium, molybdenum and other metal deposits.



TABLE 60. CANADA, EXPLORATION DIAMOND DRILLING, METAL DEPOSITS, 1952-81

	Mining companies with own personnel and equipment	Diamond drill contractors (metres)	Total
1952	416 467	951 104	1 367 571
1953	318 970	872 668	1 191 638
1954	295 613	1 109 844	1 405 457
1955	464 118	1 546 025	2 010 143
1956	474 562	1 644 735	2 119 297
1957	358 300	1 233 323	1 591 623
1958	237 133	1 200 625	1 437 758
1959	239 786	1 367 061	1 606 847
1960	268 381	1 409 416	1 677 797
1961	302 696	1 337 173	1 639 869
1962	167 214	1 748 023	1 915 237
1963	361 180	1 169 292	1 530 472
1964	143 013	1 072 985	1 215 998
1965	209 002	1 176 996	1 385 998
1966	163 379	1 044 860	1 208 239
1967	93 164	1 123 137	1 216 301
1968	159 341	990 690	1 150 031
1969	135 311	1 072 328	1 207 639
1970	62 147	1 228 061	1 290 208
1971	86 838	1 053 330	1 140 168
1972	251 651	839 753	1 091 404
1973	321 333	742 899	1 064 232
1974	357 823	892 557	1 250 380
1975	346 770	618 161	964 931
1976	335 919	532 036	867 955
1977	327 241	638 327	965 568
1978	237 250	534 557	771 807
1979	311 221	571 721	882 942
1980	347 829	747 566	1 095 395
1981	460 687	917 566	1 378 253

See footnotes to Table 59.

TABLE 61. CANADA, DIAMOND DRILLING, OTHER THAN FOR EXPLORATION,  
METAL DEPOSITS, 1952-81

	Mining companies with own personnel and equipment	Diamond drill contractors (metres)	Total
1952	..	..	1 139 876
1953	..	..	893 617
1954	..	..	629 067
1955	410 925	52 017	462 942
1956	790 522	46 188	836 710
1957	524 724	156 060	680 784
1958	444 376	172 516	616 892
1959	488 783	238 753	727 536
1960	450 246	308 860	759 105
1961	384 432	175 149	559 581
1962	528 700	192 259	720 959
1963	388 228	25 422	413 650
1964	385 765	72 594	458 359
1965	393 947	46 822	440 769
1966	227 968	191 863	419 831
1967	186 463	287 071	473 534
1968	122 851	292 914	415 765
1969	87 552	209 933	297 485
1970	290 363	241 453	531 816
1971	295 966	238 910	534 876
1972	304 523	91 903	396 426
1973	77 162	59 124	136 286
1974	54 353	24 885	79 238
1975	31 917	34 475	66 392
1976	31 413	28 383	59 796
1977	24 303	39 160	63 463
1978	351 344	58 592	409 936
1979	4 090	30 535	34 625
1980	20 545	72 127	92 672
1981	200 898	51 881	252 779

The total footage drilled shown in Tables 60 and 61 equals the total footage drilled reported in Table 59. Nonproducing companies excluded since 1964.

.. Not available.

TABLE 62. CANADA, CRUDE MINERALS TRANSPORTED BY CANADIAN RAILWAYS, 1980-82

	1980	1981 (tonnes)	1982
<b>Metallic minerals</b>			
Alumina and bauxite	2 752	3 133	2 793
Copper ores and concentrates	1 546	1 624	1 507
Iron ores and concentrates	54 167	49 788	35 101
Iron pyrite	46	30	295
Lead ores and concentrates	515	511	545
Lead-zinc ores and concentrates	353	3	1
Manganese ores	7	8	5
Nickel-copper ores and concentrates	4 983	4 457	1 890
Nickel ores and concentrates	628	612	228
Tungsten ores and concentrates	2	2	4
Zinc ores and concentrates	1 442	1 630	1 638
Metallic ores and concentrates, nes	32	29	40
Total metallic minerals	66 473	61 827	44 047
<b>Nonmetallic minerals</b>			
Abrasives, natural	70	61	37
Asbestos	400	332	190
Barite	133	72	21
Clay	621	606	485
Gravel	13	7	4
Gypsum	4 652	4 767	3 591
Limestone, agricultural	72	61	42
Limestone, industrial	331	299	177
Limestone, nes	3 801	4 139	3 049
Nepheline syenite	340	340	274
Phosphate rock	2 912	2 572	1 665
Potash (KCl)	10 652	9 703	7 681
Refractory materials, nes	4	4	3
Salt, rock	1 015	909	1 078
Salt, nes	120	102	83
Sand, industrial	1 105	986	743
Sand, nes	13	11	10
Silica	33	16	12
Sodium carbonate	581	552	481
Sodium sulphate	547	600	623
Stone, building, rough	62	9	6
Stone, nes	236	185	87
Sulphur, liquid	1 750	1 905	1 518
Sulphur, nes	5 728	5 931	4 855
Nonmetallic minerals, nes	178	221	145
Total nonmetallic minerals	35 369	34 390	26 860
<b>Mineral fuels</b>			
Coal, anthracite	125	69	56
Coal, bituminous	22 177	23 054	23 293
Coal, lignite	486	1 148	1 312
Coal, nes	18	21	12
Natural gas and other crude bituminous substances	4	4	7
Oil, crude	172	163	91
Total mineral fuels	22 982	24 459	24 771
Total crude minerals	124 824	120 676	95 678
Total revenue freight moved by Canadian railways	254 447	246 643	212 542
Per cent crude minerals of total revenue freight	49.1	48.9	45.0

nes Not elsewhere specified.

TABLE 63. CANADA, CRUDE MINERALS TRANSPORTED BY CANADIAN RAILWAYS, 1953-82

	Total Revenue Freight	Total Crude Minerals (million tonnes)	Crude Minerals as % of Revenue Freight		Total Revenue Freight	Total Crude Minerals (million tonnes)	Crude Mineral as % of Revenue Freight
1953	141.7	44.7	31.2	1968	195.4	86.7	44.4
1954	129.8	45.0	31.5	1969	189.0	81.9	43.4
1955	152.2	61.2	34.6	1970	211.6	97.5	46.1
1956	172.0	68.7	40.2	1971	214.5	95.6	44.6
1957	157.9	64.2	39.9	1972	215.8	89.4	41.4
1958	139.2	52.4	40.6	1973	241.2	113.1	46.9
1959	150.6	62.8	37.6	1974	246.3	115.3	46.8
1960	142.8	57.1	41.7	1975	226.0	110.6	49.0
1961	138.9	54.1	39.9	1976	238.5	116.6	48.9
1962	146.0	60.3	38.9	1977	247.2	121.1	49.0
1963	154.6	62.9	41.3	1978	238.8	107.7	45.1
1964	180.0	74.6	40.7	1979	257.9	127.2	49.3
1965	186.2	80.9	43.5	1980	254.4	124.8	49.1
1966	194.5	80.6	41.5	1981	246.6	120.7	48.9
1967	190.0	81.2	42.7	1982	212.5	95.7	45.0

TABLE 64. CANADA, FABRICATED MINERAL PRODUCTS TRANSPORTED BY CANADIAN RAILWAYS, 1980-82

	1980	1981	1982
	(000 tonnes)		
<b>Metallic mineral products</b>			
<b>Ferrous mineral products</b>			
Ferroalloys	75	102	47
Pig iron	80	134	42
Ingots, blooms, billets, slabs of iron and steel	425	933	630
Other primary iron and steel	64	210	21
Castings and forgings, iron and steel	198	179	114
Bars and rods, steel	728	825	521
Plates, steel	553	590	314
Sheet and strip, steel	992	1 016	666
Structural shapes and sheet piling, iron and steel	445	467	216
Rails and railway track material	101	131	94
Pipes and tubes, iron and steel	546	767	448
Wire, iron or steel	39	29	21
Iron and steel scrap	2 087	1 806	1 162
Slag, dross, etc.	128	162	52
Total ferrous mineral products	6 461	7 351	4 348
<b>Nonferrous mineral products</b>			
Aluminum paste, powder, pigs, ingots, shot	128	115	291
Aluminum and aluminum alloy fabricated material	230	229	234
Copper matte and precipitates	3	1	351
Copper and alloys, in primary form	389	379	327
Copper and alloys, nes	58	44	23
Lead and alloys	128	126	119
Nickel and nickel-copper matte	96	94	46
Nickel and alloys	30	35	15
Zinc and alloys	447	453	406
Other nonferrous base metals and alloys	29	19	13
Nonferrous metal scrap	103	60	48
Total nonferrous mineral products	1 641	1 555	1 873
Total metallic mineral products	8 102	8 906	6 221
<b>Nonmetallic mineral products</b>			
Natural stone basic products, chiefly structural	227	196	160
Bricks and tiles, clay	45	46	20
Fire brick and similar shapes	111	86	47
Dolomite and magnesite, calcined	85	71	39
Refractories, nes	36	33	16
Glass basic products	102	91	84
Asbestos and asbestos-cement basic products	33	36	23
Portland cement, standard	1 763	1 804	1 349
Concrete pipe	20	10	4
Cement and concrete basic products, nes	324	333	169
Plaster	21	18	13
Gypsum wallboard and sheathing	22	25	14
Gypsum basic products, nes	3	7	7
Lime, hydrated and quick	303	219	186
Nonmetallic mineral basic products, nes	458	424	299
Fertilizers and fertilizer materials, nes	2 092	1 937	1 581
Total nonmetallic mineral products	5 645	5 336	4 011



TABLE 64. (cont'd)

	1980	1981	1982
	(000 tonnes)		
<b>Mineral fuel products</b>			
Gasoline	1 455	1 511	1 376
Aviation turbine fuel	54	63	32
Diesel fuel	2 898	2 778	2 223
Kerosene	1	1	2
Fuel oil, nes	1 000	1 080	890
Lubricating oils and greases	389	342	296
Petroleum coke	626	463	537
Coke, nes	708	701	567
Refined and manufactured gases, fuel type	2 737	3 010	2 991
Asphalts and road oils	187	214	256
Bituminous pressed or molded fabricated material	1	1	1
Other petroleum and coal products	747	766	641
Total mineral fuel products	10 803	10 930	9 812
Total fabricated mineral products	24 550	25 172	20 044
Total revenue freight moved by Canadian railways	254 447	246 643	212 542
Fabricated mineral products as a percentage of total revenue freight	9.6	10.2	9.4

nes Not elsewhere specified.

TABLE 65. CANADA, CRUDE AND FABRICATED MINERALS TRANSPORTED THROUGH THE ST. LAWRENCE SEAWAY, 1980-82

	Montreal-Lake Ontario			Welland Canal		
	Section		(tonnes)	Section		
	1980	1981	1982	1980	1981	1982
<b>Crude minerals</b>						
Coal	204 715	1 519 188	1 046 580	6 616 010	5 935 727	6 478 426
Iron ore	9 993 769	11 727 044	6 740 758	10 358 099	12 468 808	6 364 815
Aluminum ores and concentrates	112 581	149 932	96 024	112 581	144 525	96 024
Clay and bentonite	250 526	180 280	129 267	250 526	180 280	129 266
Gravel and sand	34 000	36 651	33	195 676	203 970	118 341
Petroleum, crude	-	-	-	3 515	-	-
Stone, ground or crushed	163 545	23 036	30 839	1 046 175	952 603	102 695
Stone, rough	167	122	2 025	167	122	2 026
Salt	709 809	1 029 608	648 547	1 286 050	1 599 337	1 287 540
Phosphate rock	38 036	27 432	-	75	-	-
Sulphur	142 592	25 615	2 733	142 592	25 613	2 733
Other crude minerals	598 101	706 831	449 397	475 227	620 819	475 377
Total crude minerals	12 247 841	15 452 739	9 146 203	20 486 693	22 131 804	15 057 243
<b>Fabricated mineral products</b>						
Coke	1 271 222	773 992	617 617	1 301 705	880 911	686 590
Gasoline	202 471	112 348	144 035	157 557	136 566	157 842
Fuel oil	1 418 321	1 667 865	909 030	1 510 057	1 652 474	972 930
Lubricating oils and greases	83 667	64 677	44 330	83 605	51 026	34 414
Other petroleum products	139 139	151 924	157 202	83 453	111 501	139 305
Tar, pitch and creosote	46 573	39 613	38 236	26 822	37 482	45 328
Pig iron	183 667	183 752	138 048	174 772	173 884	128 814
Iron and steel: bars, rods, slabs	159 477	314 656	103 714	107 989	299 479	99 304
Iron and steel: nails, wire	7 284	7 364	15 005	6 657	6 949	10 705
Iron and steel: manufactured	1 724 459	2 313 521	2 412 338	1 072 857	1 861 767	1 459 619
Scrap iron and steel	689 676	79 254	414 788	611 508	57 564	382 445
Cement	82 864	2 512	3 129	268 433	259 002	215 523
Total fabricated minerals	6 008 820	5 711 478	4 997 472	5 405 415	5 528 605	4 332 819
Total crude and fabricated minerals	18 256 661	21 137 217	14 143 675	25 892 108	27 660 409	19 390 062
Total all products	42 142 459	45 875 658	38 841 399	54 073 636	53 388 616	44 473 919
Crude and fabricated minerals as a per cent of total	43.3	46.1	36.4	47.9	51.8	43.6

- Nil.

TABLE 66. CANADA, CRUDE MINERALS LOADED AND UNLOADED IN COASTWISE SHIPPING, 1981

	Loaded				Unloaded			
	Atlantic	Great Lakes	Pacific	Total (tonnes)	Atlantic	Great Lakes	Pacific	Total
<b>Metallic minerals</b>								
Alumina and bauxite ores	9 160	-	-	9 160	-	9 160	-	9 160
Copper ore and concentrates	20 947	-	-	20 947	20 947	-	-	20 947
Iron ore and concentrates	4 333 481	1 074 008	-	5 407 489	1 741 410	3 666 079	-	5 407 489
Titanium ore	1 920 407	-	-	1 920 407	1 920 407	-	-	1 920 407
Zinc ore and concentrates	-	-	13 344	13 344	-	-	13 344	13 344
Ores and concentrates, nes	50	-	-	50	50	-	-	50
Iron and steel scrap	7 577	16 614	11 249	35 440	7 577	16 614	11 249	35 440
Total metals	6 291 622	1 090 622	24 593	7 406 837	3 690 391	3 691 853	24 593	7 406 837
<b>Nonmetallic minerals</b>								
Dolomite	-	25 393	-	25 393	25 393	-	-	25 393
Gypsum	555 082	-	41 928	597 010	444 756	110 326	41 928	597 010
Limestone	4 341	1 813 060	708 149	2 525 550	4 341	1 813 060	708 149	2 525 550
Phosphate rock	35 526	-	-	35 526	35 526	-	-	35 526
Salt	324 221	1 152 453	51 145	1 527 819	1 125 928	350 746	51 145	1 527 819
Sand and gravel	221 843	-	2 371 780	2 593 623	221 843	-	2 371 780	2 593 623
Stone, crude, nes	1	397 542	150 495	548 038	1	397 542	150 495	548 038
Sulphur in ores	18 399	7 224	4 159	29 782	25 623	-	4 159	29 782
Crude nonmetallic minerals, nes	13 066	-	-	13 066	9 567	3 499	-	13 066
Total nonmetals	1 172 479	3 395 672	3 327 656	7 895 807	1 892 978	2 675 173	3 327 656	7 895 807
<b>Mineral fuels</b>								
Coal, bituminous	1 254	2 036 882	75 079	2 113 215	101 524	2 011 691	-	2 113 215
Oil, crude	432 578	555	-	433 133	433 133	-	-	433 133
Total mineral fuels	433 832	2 037 437	75 079	2 546 348	534 657	2 011 691	-	2 546 348
Total crude minerals	7 897 933	6 523 731	3 427 328	17 848 992	6 118 026	8 378 717	3 352 249	17 848 992
Total, all commodities	20 184 435	25 031 921	26 054 737	71 271 093	30 453 843	14 867 381	25 949 869	71 271 093
Crude minerals as a per cent of all commodities	39.1	26.1	13.2	25.0	20.9	56.4	12.9	25.0

- Nil; nes Not elsewhere specified.

TABLE 67. CANADA, CRUDE MINERALS LOADED AND UNLOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE, 1979-81

	1979		1980		1981P	
	Loaded	Unloaded	Loaded	Unloaded (tonnes)	Loaded	Unloaded
<b>Metallic minerals</b>						
Alumina, bauxite ore	-	2 981 940	15 945	3 934 926	6 595	3 886 501
Copper ores and concentrates	709 050	-	587 352	26 223	1 034 946	78 240
Iron ore and concentrates	49 187 843	6 408 111	35 239 362	5 202 888	41 830 097	7 707 694
Lead ore and concentrates	118 655	-	74 769	5 092	124 939	3 833
Manganese ore	16 147	78 015	19 800	129 682	25 959	168 395
Nickel ore and concentrates	64 568	624	71 262	1 463	85 603	2 620
Titanium ore	89 294	-	130 913	-	855 586	14 936
Zinc ore and concentrates	1 026 594	-	292 799	524	728 140	-
Ores and concentrates, nes	39 969	121 416	603 092	603 071	86 776	91 105
Iron and steel scrap	327 879	-	355 042	6 162	79 811	6 285
Nonferrous metal scrap	1 910	3 172	74 565	8 523	47 514	16 145
Slag, dross, residue	485 618	45 315	3 861	247	3 203	57
Total metals	52 067 527	9 639 393	37 468 742	9 918 801	44 891 169	11 975 811
<b>Nonmetallic minerals</b>						
Asbestos	453 339	306	891 831	10 682	706 622	25 286
Barite	1 981	3 625	-	36	-	8 158
Bentonite	-	294 799	14 317	151 649	-	176 559
China clay	-	48 321	93	19 059	-	34 693
Clay materials, nes	58 656	23 309	15 258	78 405	1 334	5 533
Dolomite	1 032 139	-	907 715	38 413	948 552	-
Fluorspar	23 567	143 842	-	145 838	-	190 592
Gypsum	5 505 915	147 189	4 733 725	175 759	5 062 237	134 252
Limestone	239 852	2 953 876	1 842 439	1 365 421	1 711 487	2 261 324
Phosphate rock	16	1 515 346	-	1 368 116	-	1 197 106
Potash (KCl)	2 703 604	899 917	3 843 013	32 723	4 253 511	18
Salt	1 649 916	-	1 879 269	991 855	1 431 460	1 327 244
Sand and gravel	38 959	884 694	78 678	804 079	151 833	1 322 115
Stone, crude, nes	118 508	36 307	235 805	548 113	95 377	27 290
Stone, crushed	-	33 290	100 974	330 230	13 442	62 766
Sulphur	3 287 497	4 990	5 011 131	43 550	5 726 661	3
Crude, nonmetallic minerals, nes	67 671	183	60 891	120 844	145 860	26 201
Total nonmetals	15 181 620	6 989 994	15 772 126	6 192 049	20 248 380	6 799 140
<b>Mineral fuels</b>						
Coal	12 328 621	17 178 491	13 735 346	15 137 034	17 458 453	16 066 286
Coal, nes	-	197 976	1 093	13	194	3
Oil, crude	107 231	16 188 498	920 578	15 198 039	408 408	14 070 091
Total fuels	12 435 852	33 564 965	14 657 017	30 335 086	17 867 055	30 136 380
Total crude minerals	79 684 999	50 194 352	67 897 885	46 445 936	83 006 604	48 911 331
Total, all commodities	134 638 829	67 414 437	138 161 219	67 834 656	145 445 080	68 187 889
Crude minerals as a per cent of all commodities	59.2	74.5	49.1	68.5	57.1	71.7

- Nil; nes - Not elsewhere specified.

TABLE 68. CANADA, FABRICATED MINERAL PRODUCTS LOADED AND UNLOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE, 1979-81

	1979		1980		1981P	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
(tonnes)						
<b>Metallic products</b>						
Aluminum	215 076	16 385	398 230	174 109	272 585	47 503
Copper and alloys	37 055	9 023	480 212	25 843	224 600	44 540
Ferroalloys	29 986	65 092	18 426	28 958	24 858	50 890
Iron and steel, primary	78 164	15 224	28 884	53 666	2 737	29 898
Iron, pig	221 359	19 350	468 308	20	458 534	7 717
Iron and steel, other						
bars and rods	17 545	214 058	343 034	103 467	79 921	199 244
castings and forgings	13 370	21 815	225 155	62 617	120 633	64 419
pipes and tubes	16 346	49 799	58 664	191 210	62 462	278 956
plates and sheet	108 606	490 158	1 438 646	442 783	191 667	1 282 572
rails and track material	76 751	12 198	99 726	7 028	97 644	12 433
structural shapes	69 596	342 272	97 094	69 109	24 030	240 887
wire	859	6 252	35 685	70 625	15 910	132 814
Lead and alloys	25 225	-	103 421	21 173	53 320	3 781
Nickel and alloys	2 212	915	52 520	12 385	40 847	7 661
Zinc and alloys	73 428	50	388 341	3 707	140 043	19 277
Nonferrous metals, nes	6 279	11 049	115 726	144 951	68 487	155 811
Metal fabricated basic products	6 713	11 682	470 038	607 827	56 351	170 980
Total metals	998 570	1 285 322	4 822 110	2 019 478	1 934 629	2 749 383
<b>Nonmetallic products</b>						
Asbestos basic products	1 642	-	5 349	1 345	5 606	1 907
Bricks and tiles, nes	23 880	12 469	38 490	25 126	31 527	36 057
Cement	2 829 351	61 244	1 704 324	75 130	1 719 170	130 990
Cement basic products	439	57	42 639	4 289	-	850
Drain tiles and pipes	-	-	5	104	-	-
Glass basic products	1 151	1 893	32 801	15 773	35 226	15 631
Nonmetallic mineral basic products	12 056	24 969	45 401	201 778	54 739	73 732
Fertilizers, nes	144 528	286 157	148 320	57 843	138 603	125 364
Total nonmetals	3 013 047	386 789	1 869 009	323 545	1 985 721	384 362
<b>Mineral fuel products</b>						
Asphalts, road oils	129	14 475	16 366	14 001	44 512	36 388
Coal tar, pitch	13 004	69 959	9 819	42 693	17 028	83 515
Coke	740 027	1 085 687	1 059 856	1 319 773	666 609	1 110 170
Fuel oil	3 710 585	1 858 914	2 101 989	2 352 355	3 380 547	1 888 349
Gasoline	385 648	26 638	1 250 230	221 458	615 796	63 450
Lubricating oils and greases	1 683	9 446	355 314	457 521	14 801	9 051
Petroleum and coal products, nes	38 048	71 274	285 609	242 793	266 081	47 448
Total fuels	4 889 124	3 136 393	5 079 183	4 650 594	5 005 374	3 238 371
Total fabricated mineral products	8 900 741	4 808 504	11 770 302	6 993 617	8 925 724	6 372 116
Total, all commodities	134 638 829	67 414 437	138 161 219	67 834 656	145 445 080	68 187 889
Fabricated mineral products as a per cent of all commodities	6.6	7.1	8.5	10.3	6.1	9.3

- Nil; nes Not elsewhere specified.



TABLE 69. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN THE MINING INDUSTRY<sup>1</sup>, BY DECREE OF NON-RESIDENT OWNERSHIP, 1980

	Corporations (number)	Assets (\$million)	(%)	Equity (\$million)	(%)	Sales (\$million)	(%)	Profits (\$million)	(%)	Taxable Income (\$million)	(%)	
<b>Metal mines</b>												
Reporting corporations												
Canadian	77	56.6	13,699	68.7	7,292	67.3	6,340	60.3	2,187	66.9	860	70.4
Foreign	40	29.4	6,237	31.3	3,549	32.7	4,178	39.7	1,084	33.1	362	29.6
Unclassified	19	14.0	1	--	--	--	1	--	--	--	--	--
Total, all corporations	136	100.0	19,937	100.0	10,841	100.0	10,519	100.0	3,270	100.0	1,222	100.0
<b>Mineral fuels</b>												
Reporting corporations												
Canadian	628	56.9	18,100	46.7	7,625	41.0	4,892	25.8	2,078	34.3	389	14.8
Foreign	217	19.6	20,655	53.3	10,950	58.9	14,082	74.2	3,967	65.6	2,236	85.1
Unclassified	259	23.5	23	--	8	0.1	14	--	7	0.1	4	0.1
Total, all corporations	1,104	100.0	38,778	100.0	18,582	100.0	18,988	100.0	6,052	100.0	2,629	100.0
<b>Other mining (including mining services)</b>												
Reporting corporations												
Canadian	1,785	44.7	5,366	57.9	2,242	55.8	2,889	55.1	416	43.8	218	31.7
Foreign	218	5.5	3,743	40.4	1,739	43.2	2,193	41.8	520	54.8	450	65.4
Unclassified	1,986	49.8	158	1.7	41	1.0	161	3.1	13	1.4	20	2.9
Total, all corporations	3,989	100.0	9,266	100.0	4,082	100.0	5,243	100.0	949	100.0	688	100.0
<b>Total mining</b>												
Reporting corporations												
Canadian	2,490	47.6	37,165	54.7	17,159	51.3	14,121	40.6	4,681	45.6	1,467	32.3
Foreign	475	9.1	30,635	45.0	16,237	48.5	20,453	58.9	5,571	54.2	3,048	67.2
Unclassified	2,264	43.3	181	0.3	49	0.2	176	0.5	19	0.2	24	0.5
Total, all corporations	5,229	100.0	67,981	100.0	33,444	100.0	34,750	100.0	10,271	100.0	4,539	100.0

Note: Footnotes for Table 69 apply to this table. Figures may not add to totals due to rounding.

<sup>1</sup> Classification of the industry is the same as in Table 29.

-- Amount too small to be expressed; - Nil.

TABLE 70. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN THE MINERAL MANUFACTURING INDUSTRIES<sup>1</sup>,  
BY DEGREE OF NON-RESIDENT OWNERSHIP, 1980

	Corporations <sup>2</sup> (number) (%)	Assets <sup>4</sup> (\$million) (%)	Equity <sup>5</sup> (\$million) (%)	Sales <sup>6</sup> (\$million) (%)	Profits <sup>7</sup> (\$million) (%)	Taxable income <sup>8</sup> (\$million) (%)
<b>Primary metal products</b>						
Reporting corporations <sup>2</sup>						
Canadian	248 62.6	10,847 86.5	4,870 84.2	10,332 84.4	1,197 87.3	657 85.2
Foreign	47 11.9	1,682 13.4	911 15.7	1,898 15.5	173 12.6	113 14.7
Unclassified <sup>3</sup>	101 25.5	10 0.1	3 0.1	18 0.1	1 0.1	1 0.1
Total, all corporations	396 100.0	12,539 100.0	5,785 100.0	12,247 100.0	1,371 100.0	771 100.0
<b>Nonmetallic mineral products</b>						
Reporting corporations <sup>2</sup>						
Canadian	776 50.9	1,749 28.6	574 22.8	1,908 38.6	87 21.2	70 27.6
Foreign	93 6.1	4,304 70.4	1,939 76.9	2,943 59.6	321 78.4	179 70.5
Unclassified <sup>3</sup>	657 43.0	58 1.0	9 0.3	91 1.8	2 0.4	5 1.9
Total, all corporations	1,526 100.0	6,111 100.0	2,522 100.0	4,942 100.0	409 100.0	254 100.0
<b>Petroleum and coal products</b>						
Reporting corporations <sup>2</sup>						
Canadian	33 58.9	6,949 30.2	3,454 26.5	4,494 18.0	762 23.0	287 ..
Foreign	17 30.4	16,092 69.8	9,575 73.5	20,489 82.0	2,546 77.0	1,997 ..
Unclassified <sup>3</sup>	6 10.7	1 ..	..	1 ..	..	x
Total, all corporations	56 100.0	23,041 100.0	13,029 100.0	24,984 100.0	3,308 100.0	x
<b>Total mineral manufacturing industries</b>						
Reporting corporations <sup>2</sup>						
Canadian	1,057 53.5	19,545 46.9	8,898 41.7	16,734 39.7	2,046 40.2	1,014 ..
Foreign	157 7.9	22,078 53.0	12,425 58.2	25,330 60.1	3,040 59.7	2,289 ..
Unclassified <sup>3</sup>	764 38.6	69 0.1	12 0.1	110 0.2	3 0.1	x
Total, all corporations	1,978 100.0	41,691 100.0	21,336 100.0	42,173 100.0	5,088 100.0	x

1 Classification of industries is the same as in Table 30. 2 Corporations reporting under the Corporations and Labour Unions Returns Act. A corporation is considered to be foreign controlled if 50% or more of its voting rights are known to be held outside Canada, and/or by one or more Canadian corporations which are, in turn, foreign controlled. Each corporation is classified according to the percentage of its voting rights which are owned by non-residents, either directly or through other Canadian corporations, and the whole of the corporation is assigned to this particular degree of foreign ownership. 3 Corporations exempt from reporting under the Corporations and Labour Unions Returns Act. These include corporations reporting under other acts, small companies and corporations and non-profit organizations. 4 Included are cash, marketable securities, accounts receivable, inventories, fixed assets, investments in affiliated corporations and other doubtful accounts, amortization, depletion and depreciation. 5 Equity represents the shareholders' interest in the net assets of the corporation and includes the total amount of all issued and paid-up share capital, earnings retained in the business and other surplus accounts such as contributed and capital surplus. 6 For non-financial corporations, sales are gross revenues from non-financial operations. 7 The net earnings from operations, investment income and net capital gains. Profits are tabulated after deducting allowances for amortization, depletion and depreciation, but before income tax provisions or declaration of dividends. 8 Taxable income figures are as reported by corporations prior to assessment by the Department of National Revenue. They include earnings in the reference year after the deduction of applicable losses of other years.

-- Amount too small to be expressed; x Confidential; .. Not available; - Nil.

TABLE 71. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN NON-FINANCIAL INDUSTRIES, BY MAJOR INDUSTRY GROUP  
AND BY CONTROL, 1979 AND 1980

	Agriculture, forestry, fishing and trapping				Mines Quarries				Transportation, communication and other utilities				Trade				Services				Total	
	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P	1979	1980P
(number)																						
<b>Number of corporations</b>																						
Canadian control	6,943	8,338	2,074	2,490	15,143	16,592	14,189	15,829	5,255	5,888	39,655	44,550	18,186	21,022	101,445	114,709						
Foreign control	116	104	516	475	2,280	2,107	232	205	357	307	2,141	1,953	720	635	6,342	5,786						
Other corporations	9,418	10,027	2,143	2,264	16,719	17,291	35,317	38,048	11,775	12,651	67,995	70,371	64,180	69,326	207,547	219,978						
Total corporations	16,477	18,469	4,733	5,229	34,142	35,990	49,738	54,082	17,367	18,846	109,791	116,874	83,086	90,983	315,334	340,473						
(\$ million)																						
<b>Assets</b>																						
Canadian control	4,936	6,395	27,998	37,165	62,545	74,272	14,623	16,599	93,801	107,994	48,651	55,847	19,796	23,446	272,349	321,718						
Foreign control	295	332	28,027	30,635	62,423	68,791	2,116	2,108	5,798	5,140	13,807	14,729	4,126	4,724	116,592	126,458						
Other corporations	887	937	168	181	1,511	1,554	2,244	2,366	837	908	4,943	5,138	3,798	4,104	14,188	14,989						
Total corporations	6,118	7,664	56,192	67,981	126,279	144,416	18,983	21,073	100,436	114,042	67,402	75,714	27,720	32,274	403,129	463,165						
<b>Equity</b>																						
Canadian control	1,496	1,966	13,532	17,159	25,066	28,738	3,404	3,767	24,781	30,112	14,318	16,458	4,894	5,901	87,490	104,100						
Foreign control	111	106	14,876	16,237	30,671	34,827	697	692	2,177	1,762	4,701	5,138	1,529	1,727	54,761	60,489						
Other corporations	204	206	41	49	268	260	510	531	168	168	1,180	1,154	906	932	3,277	3,301						
Total corporations	1,811	2,279	28,448	33,444	56,004	63,824	4,610	4,991	27,126	32,042	20,199	22,750	7,329	8,560	145,521	167,891						
<b>Sales</b>																						
Canadian control	4,665	5,689	10,885	14,121	81,655	95,488	20,984	24,033	37,533	44,426	122,604	141,266	18,027	22,009	296,354	347,033						
Foreign control	250	289	18,895	20,453	95,986	100,509	2,572	2,670	3,624	3,265	36,478	39,854	4,827	5,464	162,633	172,505						
Other corporations	935	1,020	155	176	2,396	2,522	4,519	4,927	1,296	1,430	10,166	10,678	5,854	6,505	25,323	27,259						
Total corporations	5,851	6,998	29,936	34,750	180,037	198,520	28,075	31,630	42,452	49,122	169,250	191,798	28,709	33,979	484,309	546,797						
<b>Profits</b>																						
Canadian control	417	514	3,660	4,681	6,750	6,945	819	981	4,091	4,551	4,853	5,194	1,494	1,765	22,084	24,630						
Foreign control	31	22	5,052	5,571	7,364	8,093	198	140	502	454	1,088	1,270	542	623	14,778	16,173						
Other corporations	84	86	10	19	100	101	159	195	53	65	350	364	457	515	1,213	1,345						
Total corporations	533	622	8,722	10,271	14,213	15,139	1,176	1,316	4,646	5,070	6,292	6,828	2,493	2,902	38,075	42,148						

Note: Figures may not add to totals due to rounding.  
P Preliminary.

TABLE 72. CANADA, CAPITAL AND REPAIR EXPENDITURES BY SELECTED INDUSTRIAL SECTOR: 1981-1983

	Capital expenditures			Repair expenditures			Capital and repair expenditures		
	Construction	equipment	and Machinery	Construction	equipment	and Machinery	Construction	equipment	and Machinery
	Total			Total			Total		
	(\$ million)			(\$ million)			(\$ million)		
Agriculture	1981	1,280.8	3,579.1	4,859.9	336.1	1,037.6	1,373.7	1,616.9	4,616.7
	1982p	1,376.9	3,069.9	4,446.8	350.0	1,152.2	1,502.2	1,726.9	4,222.1
	1983f	1,257.9	3,033.8	4,291.7	364.1	1,145.1	1,509.2	1,622.0	4,178.9
Forestry	1981	132.9	148.8	281.7	87.4	248.5	335.9	220.3	397.3
	1982p	84.9	60.6	145.5	74.4	215.9	290.3	159.3	276.5
	1983f	80.4	55.2	135.6	87.9	232.6	320.5	168.3	287.8
Mining <sup>1</sup>	1981	7,804.2	2,200.4	10,004.6	692.3	1,987.6	2,679.9	8,496.5	4,188.0
	1982p	7,501.8	1,963.3	9,465.1	693.3	1,874.9	2,568.2	8,195.1	3,838.2
	1983f	8,205.0	1,637.4	9,842.4	748.7	1,923.2	2,671.9	8,953.7	3,560.6
Construction	1981	208.6	1,096.0	1,304.6	28.9	837.3	866.2	237.5	1,933.3
	1982p	204.2	1,074.2	1,278.4	28.2	820.5	848.7	232.4	1,894.7
	1983f	203.6	1,070.4	1,274.0	28.1	817.6	845.7	231.7	1,888.0
Housing	1981	13,135.4	-	13,135.4	3,229.4	-	3,229.4	16,364.8	-
	1982p	9,890.6	-	9,890.6	3,451.0	-	3,451.0	13,341.6	-
	1983f	10,726.8	-	10,726.8	3,687.6	-	3,687.6	14,414.4	-
Manufacturing	1981	3,074.3	9,665.0	12,739.3	850.8	4,104.3	4,955.1	3,925.1	13,769.3
	1982p	2,771.0	8,351.7	11,122.7	803.1	3,962.8	4,765.9	3,574.1	12,314.5
	1983f	2,041.4	7,061.2	9,102.6	858.5	4,107.3	4,965.8	2,899.9	11,168.5
Utilities	1981	8,588.1	7,655.4	16,243.5	1,442.3	3,623.3	5,065.6	10,030.4	11,278.7
	1982p	10,273.9	7,826.4	17,900.3	1,469.6	3,949.0	5,418.5	11,743.5	23,318.9
	1983f	9,245.9	7,830.8	17,076.7	1,610.4	4,248.8	5,859.2	10,856.3	12,079.6
Trade	1981	595.4	1,403.8	1,999.2	189.8	259.3	449.1	785.2	1,663.1
	1982p	535.9	1,199.6	1,735.5	181.7	253.5	435.2	717.6	1,453.1
	1983f	522.5	1,156.0	1,678.5	189.2	261.2	450.4	711.7	1,417.2
Other <sup>2</sup>	1981	13,040.1	5,995.8	19,035.9	2,165.4	1,065.4	3,230.8	15,205.5	7,061.2
	1982p	13,568.8	5,524.9	19,093.7	2,483.7	1,039.2	3,522.9	16,052.5	6,564.1
	1983f	13,121.8	5,515.9	18,637.7	2,563.3	1,076.9	3,640.2	15,685.1	6,592.8
Total	1981	47,859.8	31,744.3	79,604.1	9,022.4	13,163.3	22,185.7	56,882.7	44,907.6
	1982p	46,208.0	28,870.6	75,078.6	9,535.0	13,268.0	22,803.0	55,743.0	42,138.6
	1983f	45,405.3	27,360.7	72,766.0	10,137.8	13,812.7	23,950.5	55,543.1	41,173.4
Mining as a percentage of total	1981	16.3	6.9	12.6	7.7	15.1	12.1	14.9	9.3
	1982p	16.3	6.8	12.6	7.3	14.1	11.3	14.7	9.1
	1983f	18.1	6.0	13.5	7.4	13.9	11.2	16.1	8.6

<sup>1</sup> Includes mines, quarries and oil wells.<sup>2</sup> Includes finance, real estate, insurance, commercial services, institutions and government departments.

p Preliminary; f Forecast; - Nil.







TABLE 74. CANADA, CAPITAL AND REPAIR EXPENDITURES IN MINING<sup>1</sup> AND MINERAL MANUFACTURING INDUSTRIES, 1981-1983

	1981			1982 <sup>P</sup>			1983 <sup>f</sup>		
	Capital	Repair	Total	Capital	Repair	Total	Capital	Repair	Total
	(\$ million)								
<b>Mining industry</b>									
Metal mines									
Gold	409.5	58.6	468.1	298.2	53.5	351.7	245.8	57.0	302.8
Silver-lead-zinc	276.8	82.2	359.0	167.9	124.5	292.4	111.1	126.9	238.0
Copper-gold-silver	438.1	321.9	760.0	223.3	230.3	453.6	213.6	229.9	443.5
Iron	188.3	338.4	526.7	151.7	366.2	517.9	109.3	334.4	443.7
Other metal mines	595.0	251.6	846.6	506.2	189.0	695.2	449.9	203.4	653.3
Total metal mines	1,907.7	1,052.1	2,960.4	1,347.3	963.5	2,310.8	1,129.7	951.6	2,081.3
Nonmetal mines									
Asbestos	69.0	83.5	152.5	46.2	59.7	105.9	42.1	78.6	120.7
Other nonmetal mines <sup>2</sup>	996.6	390.3	1,386.8	1,427.9	372.3	1,800.2	1,351.9	416.5	1,768.4
Total nonmetal mines	1,065.5	473.8	1,539.3	1,474.1	432.0	1,906.1	1,394.0	495.1	1,889.1
Mineral fuels									
Oil, crude and gas <sup>3</sup>	7,031.4	1,153.4	8,184.8	6,643.7	1,172.7	7,816.4	7,318.7	1,225.2	8,543.9
Total mining industries	10,004.6	2,679.9	12,684.5	9,465.1	2,568.2	12,033.3	9,842.4	2,671.9	12,514.3
<b>Mineral manufacturing</b>									
Primary metal industries									
Iron and steel mills	710.0	699.2	1,409.2	444.7	664.0	1,108.7	195.4	619.1	814.5
Steel pipe and tube mills	175.7	70.0	245.7	194.4	72.0	266.4	83.4	61.1	144.5
Iron foundries	19.8	25.1	44.9	16.6	39.1	55.7	19.3	43.5	62.8
Smelting and refining	643.3	353.4	996.7	519.7	243.5	763.2	455.6	297.3	752.9
Aluminum rolling, casting and extruding	32.9	25.9	58.8	13.0	28.4	41.4	11.4	31.4	42.8
Copper and copper alloy rolling, casting and extruding	24.1	6.1	30.2	21.2	5.1	26.3	6.9	5.9	12.8
Metal rolling, casting and extruding	13.9	12.6	26.5	9.3	11.6	20.9	8.2	10.5	18.7
Total primary metal industries	1,619.7	1,192.3	2,812.0	1,218.9	1,063.7	2,282.6	780.2	1,068.8	1,849.0
Nonmetallic mineral products									
Cement	150.6	78.3	228.9	59.0	73.7	132.7	33.5	69.7	103.2
Stone products	2.5	0.5	3.0	4.5	1.0	5.5	0.3	0.5	0.8
Concrete products	16.5	35.4	51.9	8.4	18.8	27.2	9.0	17.0	26.0
Ready-mix concrete	29.7	48.6	78.3	19.3	46.9	66.2	11.4	44.5	55.9
Clay products	13.4	8.7	22.1	8.6	7.9	16.5	8.3	8.5	16.8
Glass and glass products	50.1	20.0	70.1	31.0	18.8	49.8	38.7	23.8	62.5
Abrasives	27.9	15.8	43.7	11.9	13.4	25.3	12.1	13.7	25.8
Lime	3.1	2.3	5.4	2.0	1.4	3.4	1.2	1.5	2.7
Other nonmetallic mineral products	53.6	41.6	95.2	35.7	42.8	78.5	24.2	46.6	70.8
Total nonmetallic mineral products	347.4	251.2	598.6	180.4	224.7	405.1	138.7	225.8	364.5
Petroleum and coal products	844.9	302.0	1,146.9	1,113.5	304.7	1,418.2	791.9	320.8	1,112.7
Total mineral manufacturing industries	2,812.0	1,745.5	4,557.5	2,512.8	1,593.1	4,105.9	1,710.8	1,615.4	3,326.2
Total mining and mineral manufacturing industries	12,816.6	4,425.4	17,242.0	11,977.9	4,161.3	16,139.2	11,553.2	4,287.3	15,840.5

<sup>1</sup> Does not include cement, lime and clay products (domestic clay) manufacturing, smelting and refining. <sup>2</sup> Includes coal mines, gypsum, salt, potash and miscellaneous nonmetal mines and quarrying. <sup>3</sup> The total of capital expenditures shown under "petroleum and gas" is equal to the total capital expenditure under the column entitled "petroleum and natural gas extraction" and under the column "natural gas processing plants" of Table 76.

P Preliminary; f Forecast.

**TABLE 75. CANADA, CAPITAL AND REPAIR EXPENDITURES IN THE MINING INDUSTRY<sup>1</sup>, 1977-1983**

	1977	1978	1979	1980 (\$ million)	1981	1982P	1983 <sup>f</sup>
<b>Metal mines</b>							
Capital							
Construction	626.8	407.3	606.4	1,109.1	1,331.3	925.9	732.9
Machinery	352.0	169.3	281.6	467.2	576.4	421.4	396.8
Total	978.8	576.6	888.0	1,576.3	1,907.7	1,347.3	1,129.7
Repair							
Construction	63.1	53.7	70.2	137.3	151.9	157.7	150.6
Machinery	536.7	487.6	632.1	767.7	900.8	805.8	801.0
Total	599.8	541.3	702.3	905.0	1,052.7	963.5	951.6
Total capital and repair	1,578.6	1,117.9	1,590.3	2,481.3	2,960.4	2,310.8	2,081.3
<b>Nonmetal mines<sup>2</sup></b>							
Capital							
Construction	214.8	187.5	248.8	346.4	647.8	913.2	962.6
Machinery	225.8	236.4	202.6	267.6	417.7	560.9	431.4
Total	440.6	423.9	451.4	614.0	1,065.5	1,474.1	1,394.0
Repair							
Construction	20.8	18.2	14.6	32.5	26.0	23.2	27.9
Material	273.2	289.1	332.5	393.1	447.8	408.8	467.2
Total	294.0	307.3	347.1	425.6	473.8	432.0	495.1
Total capital and repair	734.6	731.2	798.5	1,039.6	1,539.3	1,906.1	1,889.1
<b>Mineral fuels</b>							
Capital							
Construction	1,998.0	2,520.9	3,820.3	5,453.1	5,825.1	5,662.7	6,509.5
Machinery	447.5	382.0	494.9	800.3	1,206.3	981.0	809.2
Total	2,445.5	2,902.9	4,315.2	6,253.4	7,031.4	6,643.7	7,318.7
Repair							
Construction	318.3	389.6	444.1	627.6	514.4	512.4	570.2
Machinery	101.2	100.2	242.1	313.6	639.0	660.3	655.0
Total	419.5	489.8	686.2	941.2	1,153.4	1,172.7	1,225.2
Total capital and repair	2,865.0	3,392.7	5,001.4	7,194.6	8,184.8	7,816.4	8,543.9
<b>Total mining</b>							
Capital							
Construction	2,839.6	3,115.7	4,675.5	6,908.6	7,804.2	7,501.8	8,205.0
Machinery	1,025.3	787.7	979.1	1,535.1	2,200.4	1,963.3	1,637.4
Total	3,864.9	3,903.4	5,654.6	8,443.7	10,004.6	9,465.1	9,842.4
Repair							
Construction	402.2	461.5	528.9	797.4	692.5	693.3	748.7
Machinery	911.1	876.9	1,206.7	1,474.4	1,987.6	1,874.9	1,923.2
Total	1,313.3	1,338.4	1,735.6	2,271.8	2,679.9	2,568.2	2,671.9
Total capital and repair	5,178.2	5,241.8	7,390.2	10,715.5	12,684.5	12,033.3	12,514.3

<sup>1</sup> Does not include cement, lime and clay products (domestic clays) manufacturing, smelting and refining. <sup>2</sup> Includes coal mines, asbestos, gypsum, salt, potash, miscellaneous nonmetals, quarrying and sand pits.

P Preliminary; <sup>f</sup> Forecast.



**TABLE 76. CANADA, CAPITAL AND REPAIR EXPENDITURES IN THE MINERAL MANUFACTURING INDUSTRIES<sup>1</sup>, 1977-1983**

	1977	1978	1979	1980 (\$ million)	1981	1982P	1983 <sup>f</sup>
<b>Primary metal industries<sup>2</sup></b>							
Capital							
Construction	171.2	130.7	153.4	328.2	330.1	253.3	171.4
Machinery	549.1	475.4	621.1	960.9	1,289.6	965.6	608.8
Total	720.3	606.1	774.5	1,289.1	1,619.7	1,218.9	780.2
Repair							
Construction	85.3	80.8	87.6	122.1	139.0	86.7	98.9
Machinery	662.8	780.1	887.7	998.5	1,053.3	977.0	969.9
Total	748.1	860.9	975.3	1,120.6	1,192.3	1,063.7	1,068.8
Total capital and repair	1,468.4	1,467.0	1,749.8	2,409.7	2,812.0	2,282.6	1,849.0
<b>Nonmetallic mineral products<sup>3</sup></b>							
Capital							
Construction	63.3	62.0	102.0	70.0	93.4	31.7	22.4
Machinery	215.5	217.9	293.5	249.7	254.0	148.7	116.3
Total	278.8	279.9	395.5	319.7	347.4	180.4	138.7
Repair							
Construction	16.1	17.5	20.2	16.7	23.7	28.0	29.5
Machinery	169.5	190.3	206.1	213.8	227.5	196.7	196.3
Total	185.6	207.8	226.3	230.5	251.2	224.7	225.8
Total capital and repair	464.4	487.7	621.8	550.2	598.6	405.1	364.5
<b>Petroleum and coal products</b>							
Capital							
Construction	268.2	215.6	180.0	215.6	629.9	821.3	594.9
Machinery	98.4	99.5	94.0	109.1	215.0	292.2	197.0
Total	366.6	315.1	274.0	324.7	844.9	1,113.5	791.9
Repair							
Construction	125.7	117.5	158.1	190.5	212.9	228.1	237.3
Machinery	45.8	57.4	61.3	76.2	89.1	76.6	83.5
Total	171.5	174.9	219.4	266.7	302.0	304.7	320.8
Total capital and repair	538.1	490.0	493.4	591.4	1,146.9	1,418.2	1,112.7
<b>Total mineral manufacturing industries</b>							
Capital							
Construction	502.7	408.3	435.4	613.8	1,053.4	1,106.3	788.7
Machinery	863.0	792.8	1,008.6	1,319.7	1,758.6	1,406.5	922.1
Total	1,365.7	1,201.1	1,444.0	1,933.5	2,812.0	2,512.8	1,710.8
Repair							
Construction	227.1	215.8	256.9	329.3	375.6	342.8	365.7
Machinery	878.1	1,027.8	1,155.1	1,288.5	1,369.9	1,250.3	1,249.7
Total	1,105.2	1,243.6	1,412.0	1,617.8	1,745.5	1,593.1	1,615.4
Total capital and repair	2,470.9	2,444.7	2,865.0	3,551.3	4,557.5	4,105.9	3,326.2

<sup>1</sup> Industry groups are the same as in Table 28. <sup>2</sup> Includes smelting and refining. <sup>3</sup> Includes cement, lime and clay products manufacturing.  
P Preliminary; <sup>f</sup> Forecast.

TABLE 77. CANADA, CAPITAL EXPENDITURES IN THE PETROLEUM, NATURAL GAS AND ALLIED INDUSTRIES<sup>1</sup>, 1977-1983

	Petroleum and natural gas extraction <sup>2</sup>	Transportation including rail, water and pipelines	Marketing (chiefly outlets of oil companies)	Natural gas distribution (\$ million)	Petroleum and coal products industries	Natural gas processing plants	Total capital expenditures
1977	2,290.0	374.9	135.5	213.0	366.6	155.5	3,535.5
1978	2,684.1	312.4	145.6	246.6	315.1	218.8	3,922.6
1979	4,013.4	229.3	134.3	262.5	274.0	301.8	5,215.3
1980	5,744.2	602.1	205.2	386.4	324.7	311.5	7,574.1
1981	6,444.9	1,745.7	264.1	408.7	844.9	311.6	10,046.9
1982 <sup>p</sup>	6,022.3	2,021.1	270.2	516.3	1,113.5	503.6	10,447.0
1983 <sup>f</sup>	6,802.7	871.4	363.7	552.7	791.9	373.8	9,756.2

<sup>1</sup> The petroleum and natural gas industries in this table include all companies engaged in whole or in part in oil and gas activities. <sup>2</sup> Does not include expenditures for geological and geophysical operations. See also Footnote 3 to Table 71.

p Preliminary; f Forecast.